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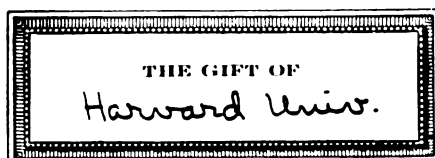
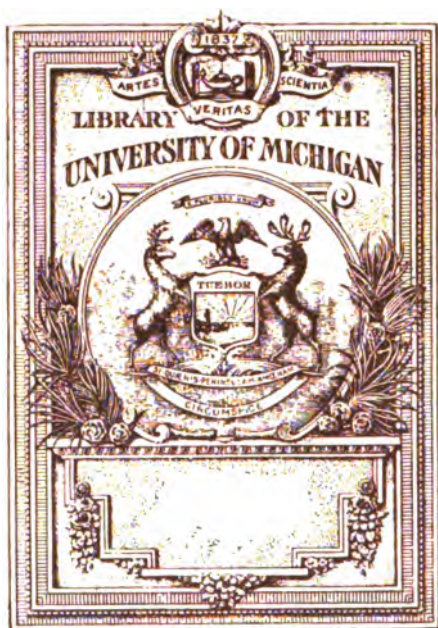
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**REPORTS OF THE  
PRESIDENT AND THE TREASURER  
OF HARVARD COLLEGE**

**1917-18**



**CAMBRIDGE  
PUBLISHED BY THE UNIVERSITY  
1919**



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TREASURER'S STATEMENT

# PRESIDENT'S REPORT

1917-18

To THE BOARD OF OVERSEERS:—

The President of the University has the honor to submit the following report for the year 1917-18:—

The annual report for the past year has been delayed by the labor incident to the changes in administration and instruction made at the request of the Government; and, in order to include the work of the University to the end of the war, this report is brought down to the demobilization of the Students' Army Training Corps following the armistice of November.

The last academic year has passed wholly under a state of war, and the conditions under which the University has carried on its work have had a constantly increasing military character; while, in spite of the reduction in the student body, the strain upon its ever diminishing staff has been greater and greater as the months rolled by. The records of the Corporation show that leave of absence to enter government service has been voted to one hundred and sixty-eight members of the instructing or administrative staff,\* and this does not include a large number of the younger men on yearly appointments. As in the preceding year, many more whose number cannot be exactly ascertained devoted more or less time to government work in addition to their academic duties. It would be impossible to recount the manifold services rendered in this war by members of the instructing staff of the University, and it would be invidious to select examples at a time when vast numbers of citizens have devoted themselves to public work. But it is noteworthy that, whereas before this war it was customary for men of affairs to speak of professors as academic or unpractical, it is now generally recognized that university professors have shown themselves highly efficient in the most exacting practical affairs, even in matters far removed from their special fields.

\* This includes clinical instructors at the Medical and Dental Schools whose whole time had not been given to the Schools.

Students, younger instructors, and recent graduates have entered active service in the Army and Navy. How many of them have done so, and how many received commissions, is not yet fully known, but the lists compiled show that 2950 students went directly from the University into the Army and Navy of the United States; that the total number of Harvard men in the armed services of this country and its co-belligerents was 7523, and in the various auxiliary services, such as the Ambulance, Red Cross, Y. M. C. A., and government work, 2733 more; and that the number of men who received commissions in the Army and Navy was 4911; while many others were soldiers or sailors in officers' training camps at the time the armistice was signed. The roll of honor of those who have given their lives in the cause of civilization and humanity now numbers 262.

The diminution of students was progressive throughout the year, almost all those who were not physically disqualified leaving as soon as they reached the age of admission to an officers' training camp, while many more left before that age to enlist in the Army, the Navy or the Field Ambulance. The result was that the number of students remaining in the different departments of the University by Commencement, 1918, as compared with the numbers in the Catalogue for the autumn of 1916 was as follows:

	June, 1918	October, 1916
Undergraduates .....	1164	2582
Graduate School of Arts and Sciences .....	274	605
Graduate School of Business Administration .....	40	222
Faculty of Architecture .....	5	63
Bussey Institution .....	0	16
Engineering and Mining .....	791	577
Divinity School .....	38	73
Law School .....	186	856
Medical School .....	384	358
Dental School .....	204	240
Total .....	3,086	5,592

The military training was continued throughout the academic year, four progressive military courses being offered, besides a number of others of a more specialized character, such as those on the supply service, etc.

In the last annual report a reference was made to the special courses for students enlisted in the Navy but given leave of absence

for further study. Unfortunately, Lieutenant Greene died suddenly on December 18, 1917. He was succeeded by another excellent officer, Lieutenant-Commander Joseph Cornell Nowell, who remained in charge until the close of the year. These courses then came to an end, for they were designed to meet the needs of a temporary group of men, — those already enlisted in the Navy who were given leave of absence to pursue their college studies. The presence in the college grounds of the School for Ensigns made unnecessary a development of a naval unit, because good students in the College, who had taken advantage of the military training offered, could readily obtain appointments to the School and win in four months commissions which it would have taken them far longer to attain through a naval unit. In fact, 221 Harvard students and graduates entered the School for Ensigns.

This School, technically called the Officer Material School, was described in the last annual report. It has not only been continued, but more than doubled in size, two classes being established, one beginning every two months and lasting four months, each with a hundred and eighty men. They outgrew Holyoke House and were eventually transferred to Matthews Hall; and their mess was transferred from Standish Hall to the Harvard Union. On February 3, 1918, Dane Hall, used partly as headquarters for this School and partly for the Bursar's office, was destroyed by fire, which made it necessary to transfer the headquarters of the School to Wadsworth House, and the Bursar's office to the Burr Memorial Building, built and in peace used by the Varsity Club for the athletic teams and tables. Dane Hall had long ceased to be well suited for academic use; but it was full of memories, as the former home of the Law School and the place where Judge Story gave the lectures that formed the substance of his great commentaries.

The last annual report spoke also of the beginnings and growth of the Naval Radio School. This increased steadily in size until it contained in the autumn of 1918 nearly five thousand members. With the unexpected gain in numbers, the cost *per capita* to the University diminished, and the Corporation, finding that it was making a profit which it had by no means intended to do, assumed the rent to July 1 of the private dormitories hired by the Navy, and reduced from that time the *per capita* charge for the mess and buildings. It built also at its own expense a temporary additional

dining room, supplied from the kitchens of Memorial Hall. This school and that for ensigns will now diminish rapidly in numbers, and both are expected to close about the first of April.

As in the preceding year military instruction did not end with the academic term. In the summer six weeks' intensive training was offered to our students, to candidates who had passed the entrance examinations to College, and to other young men; the number enrolled being 522. For the first three weeks, the corps used the Freshman Halls as barracks; and, by the courtesy of Mrs. Bayard Thayer, the last three weeks were spent in camp on an excellent field, a part of her estate in Lancaster. Camp Thayer, as the site was called, was near enough to Camp Devens at Ayer to permit the use of the ground and intrenchments of that camp for instruction in field manoeuvres.

At the end of the summer a vital change took place in the relation of the colleges to military training. Congress had reduced the draft age from twenty-one to eighteen, a change that would strip the colleges of much the greater part of their students. In order to prepare these men for military duties as rapidly as possible, the Committee on Education and Special Training in the War Department established a Students' Army Training Corps. The plan in its final form provided for eleven hours a week of strict military training; and forty-two hours a week of academic instruction and study, partly in subjects of direct military value, and partly in ordinary college studies. The students were inducted into the Army, becoming enlisted men under the command of military officers except while in the college lecture rooms. Their tuition, board and lodging were paid by the War Department, which undertook also to defray any expense incurred for the erection or hire of additional buildings for barracks and mess rooms. With our supply of dormitories and dining halls, such expenses in our case were not large.

In order to enlarge the class of young men receiving the benefit of this training, and to increase the number from which a selection for officers' training camps could be made, the Committee requested the colleges to admit high school students, eighteen years of age, who had completed thirteen units of secondary school work. As this is about three quarters of a year less than a standard high school course, the applicants obviously could not pass our entrance

examinations. But the Committee had no intention of asking the colleges to reduce their requirements for admission to regular standing, and therefore these young men were received as special students in the Training Corps, with the right to take any courses of instruction open to other members of the Corps. Although the announcement was not made until the course was about to open, the applications were many. In fact, the Training Corps, apart from the Naval Unit and the Marine Corps, contained on November 1, 701 students who regularly entered the College or one of the Graduate Schools,\* and 565 from the high schools.

The plan, which involved dividing the academic year into three terms instead of two, and rearranging many courses to comply with the requirements, threw a heavy burden upon the instructing staff, already much depleted. Many of the instructors were called upon to teach subjects quite outside their usual field, and the reorganization had to be made very rapidly. Additional difficulty arose from admission at the request of the War Department of students nearly a year short of completing their high school work and often ill prepared to pursue the courses of instruction. Everything that the Government asked we did. A committee of the heads of departments under the Faculty of Arts and Sciences, with Professor Clifford H. Moore as chairman, made the arrangements with extraordinary speed and skill; and the instructing and administrative staff made every effort to insure the success of the plan. But it was inherently defective, and diverse causes increased the obstacles. The first of these was the outbreak of the epidemic of influenza as the College opened its doors. This prevented instruction of students in more than small groups, and delayed the induction and lodging in barracks of about half the members of the Corps, thereby making it impossible for a time to prepare a roster and thus register attendance. The precautions taken against the disease prevented its taking among the students an epidemic form; and in the first attack only three students lost their lives. Unfortunately, three more have since died in a later recrudescence of the infection.

Another cause of difficulty, inevitable and in fact a valuable part of the plan, lay in the rapid withdrawal to officers' training camps of many of our best men who would have furnished the body of

\* This does not include the medical and dental students who were members of the Corps.

student officers and exerted a strong influence upon the rest. Finally, when the armistice came suddenly, the chief motives that had led the men to join the Corps—the hope of winning commissions, and the yearning to take part in the war—were removed. The students regularly admitted to College, knowing that they could not serve in arms, desired to pursue their college work unhampered by military calls upon their time, while the many special students from the high schools, who had not been admitted to College and did not care to be, took for the most part little interest in their studies and longed to depart. The reason for the creation of these corps in the colleges having ceased, the War Department ordered them demobilized by December 21.

It has already been pointed out how the presence of the School for Ensigns had hitherto made a naval unit at Harvard needless. But when the draft age was lowered to eighteen, the conditions were changed. Every able-bodied student over that age was virtually bound to enter the Students' Army Training Corps, and having entered the Army he could not be transferred to the Navy. The door to the Ensign School would, therefore, be closed for him. In order to keep it open a Naval Unit was needed and it was therefore established. In it there were recruited on November 1, 441 men, of whom 178 were our regular students and 263 from high schools. As the S. A. T. C. took their meals in the Freshman Halls, and were barracked in these Halls, in Randolph, and also in Westmorly which was hired for the purpose, the Naval Unit was quartered in Weld, Grays and Holyoke, the men taking their meals in the former reading rooms of the Harvard Union. In this unit, as in the S. A. T. C., although for somewhat different reasons, unsatisfactory conditions arose, and it was dissolved at the same time.

A unit of the Marine Corps was also formed with 101 members (74 of them our own students and 27 from high schools). It was barracked and messed with the S. A. T. C., and organized under the commandant of that Corps although with a marine officer of its own. This in turn has been dissolved with the rest.

The college students under eighteen felt keenly their inability to join the Corps. A few of them were, by special arrangement, taken into the Marine Unit, and for the rest there was provided a Junior S. A. T. C., which naturally broke up when the official units of the Corps were demobilized.

The plan of the War Department was designed to include the professional schools; and in some cases special programmes of study were prepared for the purpose, the number of hours of drill being reduced to allow more time for technical preparation. At Harvard the conditions involved a varying policy in different schools. In the case of the students of engineering the plan was applied completely. The position of the Medical School was peculiar. At first all the students were ordered to live and mess in barracks, like the rest of the S. A. T. C.; but the hindrance to clinical instruction was so obvious that the order was countermanded for the two upper classes before it was put into effect here. It remained in force, however, for the two lower classes; and about half the men in these classes lived in the Freshman Halls in Cambridge, with the inconvenience of a long journey to and from the School each day; but before the other half could be inducted the order for demobilization was issued. The other schools were less affected. The Law School, for example — being restricted to college graduates — contained very few men touched by the lowering of the draft age. Almost all its students were incapable of military service; and it did not seem wise to rearrange the curriculum for the very few who could serve, the more so because under the plan announced by the War Department they would be called to camps by the first of January. The Law School, therefore, continued its former course unchanged; and the same was true of the other professional Faculties.

The experience of the last two years suggests a further consideration of the subject of military training in colleges. The results of the Students' Army Training Corps, defective and incomplete as that experiment has been, seems to confirm the opinion expressed in these reports for 1914-15 and 1915-16 that drill had better be separated from academic study and taught in summer camps. Even a small amount of drill in term time interferes with the regular college duties more than it contributes to military training; while that training can be given far more effectively in camps conducted under strict military conditions. A few weeks in such camps are more valuable than a few hours of drill each week pursued through four college years.

Moreover, the war has shown the need of a broader preparation for modern war than most of our officers received. There seems to

be no doubt that our losses in battle were much larger than they need have been if the officers had been more familiar with the conditions they were called upon to meet. This means not only unnecessary sacrifice, but in a hard and closely contested war it might mean the difference between victory and defeat. Surely it ought to be possible to teach the art of war as other applied sciences or arts are taught. We do not instruct engineers or industrial foremen by merely training them in manipulating existing machinery and requiring the regulations for its use to be committed to memory. We teach them something at least of the mechanical principles on which all machinery rests, in order that they may be able to understand new devices, and show the workmen under their charge how to use them. Nor does such a process unfit them for actual manufacturing plants. On the contrary, it makes them far more valuable. There is no obvious reason why the same method could not be effectively applied to training reserve line officers in the art of war.

Tactics depend upon weapons; and, therefore, with the improvement in weapons tactics change from one war to the next, and from the beginning to the end of a long war in this inventive period of the world. But the general principles upon which tactics and military discipline rest always have been and always will be the same. The military art is the application of these principles to the conditions of actual warfare, and in that sense they are as invariable as the principles of mechanics, the application alone changing with the weapons or machinery in use. It ought to be possible to teach those principles and explain by means of them the meaning and intent of field regulations and of military organization and supply, thereby training line officers who would not only be familiar with the existing practice, but able also to apply their knowledge rapidly to the unknown conditions and amended regulations that a new war will certainly produce. These things could well be taught during the academic term, and their practical application learned in summer camps where more continuous and extended operations, with field manoeuvres covering many days, would furnish better material for systematic observation than could possibly be provided in term time. Military principles of this kind could be made a scientific study of real academic value even in the case of infantry, — still more so in that of artillery, — and they could be taught without

consuming a large amount of time. It may be added that such a training for citizen soldiers has no tendency to produce a military caste, or militant nation, and is in no wise inconsistent with an attempt and a fervent hope to prevent future wars.

A similar plan might be adopted for the Navy, the students being taught the necessary mathematics, physics, astronomy and navigation in college, and learning the seamanship and drill during the summer at naval stations and afloat. So long as there is no universal compulsory service, military studies at most of the colleges must be voluntary; but the summer camps would present strong attractions to the students and might go far to solve the problem of the long vacation idly spent by far too many men. The case of the large number of students who now depend upon their summer vacations to earn money for their support in college could probably be met to a great extent if the Government, in addition to their expenses, would allow the students the pay of privates when in camp, or better still, perhaps, would make provision for scholarships like those awarded in college.

While the University has striven to render every possible service in the war by lending its instructing staff to the Government, and by giving military training to its students, it has constantly pursued the policy of maintaining its regular courses of instruction, in many cases reduced in scale but not substantially impaired. Those students who on account of age or physical defects have remained in Cambridge have pursued in the main their normal education, whether in college or in the professional schools. The result has been that after the armistice was signed, when the Students' Army Training Corps was demobilized and men began to return from the camps, the College and the professional schools were able to receive and instruct them at once. This has stood us in good stead, for it was surprising how quickly after the armistice the attitude of the community changed from war to peace, from strenuous exertion in putting forth its full military strength to a revival of interest in the normal currents of life. This was not less true of the students. Some of them, indeed, who were in officers' training camps, have preferred to finish that course and receive commissions as officers in the reserve; but, in the main, men who had been longing to take part in the war, and accepted eagerly any chance to do so that opened, began, when the prospect of active service vanished, to

find military routine irksome, and desired to complete their education.

Opportunities were immediately given them to take up their work here. In the College certain essential courses were begun afresh on the day after Thanksgiving; and in this connection the division of the academic year into three terms of twelve weeks each, adopted for the year 1918-19 at the request of the War Department in place of the usual division into two terms, has a distinct advantage. It enables the College to receive returning students at the beginning of January and again at the beginning of April; and in order that men who come back at these dates may have a chance to make up for lost time, the next Summer School will provide more courses for regular students under the Faculty of Arts and Sciences, and its sessions will be prolonged to eleven weeks for their benefit. The student, therefore, who comes back on the first of January can accomplish a whole year's work by September.

A similar policy has been adopted by the professional schools. The Law School, the Medical School, the School of Business Administration and the Schools of Architecture and Landscape Architecture will begin their courses for first-year men afresh at dates varying from January 2 to February 1; and will continue their instruction through the greater part of the summer so that the men entering may complete a full year's work.

A suggestion has been made that credit should be given for military service both in entering college and toward advanced standing. The difficulty in so doing is illustrated by the experience with the Naval Unit of the Students' Army Training Corps. A large number of the boys admitted at the request of the Government before completing their high school course joined the Naval Unit and were set to study trigonometry as a preparation for navigation. But it was found that many of them had never studied plane geometry; and no amount of good conduct, no amount of military service, will enable a man to learn trigonometry if he is ignorant of geometry. Our present entrance examinations are not an arbitrary, rigid piece of formalism, but an attempt to discover whether the applicant is capable of pursuing college studies. If not they are artificial and ought to be radically changed at once. The same thing is true of the courses in College. They are very largely progressive, and the more advanced cannot be pursued with profit

until after the elementary ones. It is not a question of arbitrary credit, but of preparation, so that work of the later years cannot be done by giving a credit for work of the earlier years that has not been done. In some subjects this is self-evident. Organic chemistry cannot be studied by one who has not studied inorganic chemistry, nor physiological chemistry by one who has not taken an organic course. To a greater or less extent this is true of all the subjects taught in college. A man, therefore, who has served a year in the Army, however meritoriously, cannot really skip a year of college work and proceed with advanced studies as if he had done that work. The only year that can really be cut off is the last, and this brings us to another question — that of conferring the degree.

Some colleges are said to have decided to confer the degree of Bachelor of Arts upon students who are a year short of completing the requirements for the degree, but who have served a year in the Army or Navy as commissioned officers. Harvard has not thought it well to confer a regular degree of Bachelor of Arts in such a way, on the ground that this degree, like all the others conferred after a period of study, ought not to be a decoration for honorable conduct but a certificate that a definite course of education has been pursued to the end; and for some years we have been striving to make the work as serious as that for any other degree. For this reason the habit which long prevailed of conferring this degree, after twenty-five years of respectable conduct, on men who had failed to earn it when their class graduated, was abandoned some time ago.

An argument advanced for conferring the degree is that the experience acquired by an officer is at least as valuable as the education obtained by a year in college. In the formation of character, in the knowledge of men, in the sense of responsibility, in preparing a man for life, and in many other things, it may well be much more valuable than a year of academic study, but it is not the same thing. It ought to be honored, far more highly honored than faithful work in college, but it ought to be honored for what it is rather than for what it is not, and the roll of honor is not dimmed because service to the country prevented the completion of a college course or the earning of a college degree. This policy was brought before the Board of Overseers by a petition in a particular case; and on September 30, 1918, after hearing the report of a committee, the Board voted unanimously to accept the recommendation of the

committee "that the present policy of the University governing the granting of degrees is wise, and that it is impossible to make individual exceptions thereto." Students returning from the war have been given every possible opportunity to complete their work. Those who left near the end of any year have been given special examinations and credit for a full year's work. Those who left College to enter the war have been given certificates to that effect; and their names ought to be printed in the Quinquennial Catalogue either with a degree conferred *honoris causa* — as recommended by the vote of this Board adopted today — or with some other indication that they left College before graduation to serve in the war. This is an accurate statement of the facts, and is a more honorable way of stating them than simply granting the degree as if received in regular course.

The question of conferring the degree of Bachelor of Arts affects the admission to our professional schools, most of which have been in the habit of requiring graduation from college as a condition for entrance. There is good reason for placing in the path of men who have served in the war no conditions for professional study which are not absolutely necessary for pursuing that study effectively. Moreover, it would be practically impossible to refuse to recognize degrees conferred by other good colleges, to scrutinize the work of each applicant in order to ascertain that his diploma was granted on the completion of the usual curriculum; and yet it would clearly be unjust to admit students from other colleges and refuse those from Harvard whose qualifications were precisely the same. The Faculties of the Law School, the School of Business Administration, and the Schools of Architecture and Landscape Architecture have therefore voted to admit applicants who are entitled to be ranked as Seniors in their colleges and for at least six months have been engaged in military or naval service or in civilian war work for the United States or a country associated with it in the war.

The Medical School already admits men with certain pre-medical qualifications who have spent only two years in an approved college but have stood in the first third of their class. In this case, therefore, it was only necessary for the Faculty to pass a vote virtually relaxing for students who have served in the war the requirement that they should have ranked in the first third of their class. The Graduate School of Arts and Sciences did not need to take action.

The period for obtaining the higher degrees there is not fixed, and a student a year short of his college education will normally need an additional year in earning a higher degree. A Harvard student will, therefore, not be disparaged by being required to finish his college course before entering the Graduate School, for he can ordinarily attain his higher degree as rapidly as the man prematurely admitted to the School and he will obtain his bachelor's degree on the way.

The disturbance of the ordinary college routine caused by the war has furnished an occasion for reviewing our methods of education and considering whether we ought not to proceed farther in the direction we have pursued for some years — that of paying more attention to the student as the man to be educated, or provoked to education, and less exclusive heed to the single course of instruction as the means of educating him. We need among the students, and even among the instructors, a better sense of proportion, a clearer conception of the aim of the college and of what means are best fitted for attaining it. Too few of the students have a definite idea of their object in coming to College, even after completing half of their work for a degree. Too many have a disproportionate idea of the value of intellectual as compared with athletic strength, rating exceptional physical achievement too highly, exceptional intellectual power too low, and thinking far too little about the importance to the ordinary man of cultivating both his mind and his body. The conscientious instructor, on the other hand — and instructors who are not conscientious are rare — is too much inclined to deal with his own subject as a final aim in itself, a thing apart from every other side of education, instead of one element among others in the training of an immature mind. This is true not only of the subject, but of the fraction of the subject that falls within the limits of a single course. A professor of history in a great foreign university remarked some years ago that there were some advantages in an institution smaller than his own, because in his university no one taught history as a whole, but each occupant of a chair only a small part of it. The tendency to cut the knowledge of a subject into fragments separately taught in distinct courses, with nothing to weld them into a whole in the mind of the student, is artificial and harmful. An exaggerated importance seems to be attached by teachers in our universities and colleges to the dignity

of giving courses as compared with other methods of instruction or directing study, or with exerting a control over the whole system of education by conducting examinations of the kind used in foreign universities. This is partly because the value of a department is too often measured by the number of courses offered, rather than the proficiency of its students, or the quality of its productive scholarship.

The college years are not the time to form highly trained specialists; that comes later; and although an undergraduate must specialize to a considerable extent in order to grasp any subject thoroughly, his main object should be to acquire habits of intellectual application, of clear and accurate thought, and of lucid expression. He should cultivate the power to understand the intricate relations of things, and above all that subtle quality of substantial imagination and resourcefulness which comes from constant and profound thought on difficult problems. Both the older advocates of the doctrine of formal discipline with its division of the mind into distinct faculties, and those modern protagonists of pedagogy who assert that any particular study gives only a capacity to deal with the subject matter that it covers, appear to overlook the effect which one mental process has upon another. Anyone who has mastered the calculus, for example, tends thereafter to regard all things from the standpoint of ratios rather than quantities, of movement rather than position, of tendencies rather than present conditions. Anyone who has learned to seek for truth in original sources, or by primary proof, tends in any serious matter to be dissatisfied with secondary sources or evidence. The human mind would seem to be, not a collection of thought-tight compartments separated from one another, but an exceedingly complex whole wherein every method of reasoning, every intellectual conception and every body of knowledge has an influence upon all the habits of thought. If so, education should be directed to improving the mind as a whole; and the different subjects of study, still more the several courses of instruction within any one subject, should be considered in their relation to that whole, — not for the sake of bringing the various minds into conformity with any one type, but that each whole mind may be as good of its kind as it can be made.

The subject has been discussed more than once in these reports, in seeking to maintain the principle that the single course of instruc-

tion is not, and cannot be, the unit in education, that the only true unit is the student himself; and the principle cannot be too often repeated or too earnestly urged. The steps that have already been taken to give it effect have also been described. In the attitude of the student toward his work, in the regard paid to his development as a man, there has been a marked improvement of late years; but much remains to be done. The new psychological tests, much in vogue during the war, are based upon the idea of seeking to measure the capacity a person possesses instead of the process he has been through to acquire it; and imperfect though as yet they may be for the purpose, the idea is sound. One of the most serious evils of American education in school and college is counting by courses — the habit of regarding the school or college as an educational savings bank where credits are deposited to make up the balance required for graduation, or for admission to more advanced study; whereas the only place where education can be stored to be drawn upon when needed is the student's own brain. To some extent the constant checking off of work done throughout the curriculum is necessary, both to avoid a mere cramming for a final examination and because the art of comprehensive examination, to measure the actual attainments and abilities of candidates, is still imperfectly developed here. But such checking off should be only a record of progress, not the final test of attainment. The new plan of entrance examinations, in use not only at Harvard but also at Yale and Princeton, is designed to test the boy as he stands when he offers himself for admission to college, and it has worked well. Comprehensive examinations for all degrees have been in operation for some years in the Divinity School with highly satisfactory results. They have been adopted in the Medical School where, although still in the experimental stage, they are decidedly promising. Under the Faculty of Arts and Sciences they have been used for the degree of Doctor of Philosophy. They have long been tried with success in the College for honors, more recently for all men concentrating in the Division of History, Government, and Economics, and in History and Literature; and the Faculty has now appointed a committee to consider what, if any, extension of the principle can profitably be made in other fields.

The rapidity with which our whole community has turned from the excitement of the war to the conditions of peace has already

been noted, and it may well provoke serious reflection. During the war many people felt that the heroic temper, the spirit of self-sacrifice for an ideal, the exaltation of sentiment called forth, were certain to raise our civilization permanently to a higher level, and to produce a lasting effect on the national character. But that has not been the experience with great wars hitherto. The wars of Napoleon were followed by an era of material progress, where interest was centered in the accumulation of wealth. Our own Civil War was followed by the lowest state of political morals that we have ever known, reaching its climax in the Tweed Ring in New York. The war of 1870 was followed in Germany by the growth of materialism that culminated in the present attempt to exploit mankind by force. Nor are these unnatural results. On the material side, war destroys vast quantities of property which have to be replaced, rolls up debts that have to be paid, and it is natural that after a war people should seek to repair the damage it has caused. On the spiritual side, also, any great moral effort is liable to be followed by a period of moral relaxation. After a great war, therefore, and not least, perhaps, after a war that has awakened so great an enthusiasm and devotion, it is wise to beware of a materialistic reaction. Among the strongest agencies to prevent such a relapse ought to be our colleges and universities, which should feel more than ever before their duty to keep before the minds of young men the eternal values and the spiritual truths that endure when material things pass away.

This does not mean that we should give no thought to the physical condition of the student. Perhaps we have overlooked that subject too much, until the standards of academic work are not the only ones that need reconsideration. Those which relate to the physical development of the students should be given careful attention also. Athletic contests, both within the University and with other colleges, if properly conducted, are good both in their moral and physical effects, and of late years the objectionable aspects of these sports have very much diminished. But they are only a part of the physical training that should be given. An athletic system which resulted only in having the great mass of students sit on the bleachers and applaud a few exceptional men in the field would be hopelessly defective; and in fact the great intercollegiate games have been too exclusively the object of attention. This has had two

unfortunate results. It has lent an exaggerated importance to these games and to the men who take part in them, and it has led to a neglect of the ordinary student and his bodily condition. After a year and a half of war, in which intercollegiate sports have been suspended, and all the men in the university training corps have been required to take setting-up drills and hard physical exercise, it would seem that we might resume athletics on a more rational basis than in the past.

There are two different ways of regarding the functions of the college. One is that its duty should be limited to offering its students the best possible opportunities for instruction; that beyond this it has no responsibility for their welfare, which is wisely left in their own hands. Such has been the practice of the German universities; and under the influence of the doctrine of *laissez faire*, American colleges were at one time strongly tending in that direction. The other theory is that the whole development of youth — mental, moral and physical — falls properly within the province of the college, at least to the extent of seeing that the environment is favorable, or certainly not unfavorable, to a healthy growth. On the intellectual side we are no longer satisfied to offer opportunities for study. We try to use every means at our command to induce the student to take advantage of them. On the moral side of student life we have been striving to exert an ever increasing influence. On the physical side we supervise the intercollegiate contests of athletes, but for the ordinary man, beyond a medical examination at entrance, such medical advice as may follow it, and the provision of playgrounds, we make no attempt to encourage, or even countenance, the exercise required for health. For most men the best form of exercise at college age is to be found in competitive sports; but except in the case of the teams, we not only ignore them, we so arrange the hours of academic work as to make it very difficult for many of our best students, if engaged in laboratory work, to take part in them. It may be worth while for the College to consider how far, if at all, it ought to deal with this matter; whether it ought to go so far as to compel some form of exercise for those who need but will not take it; or confine itself to making it possible for every student to take natural and pleasurable exercise; or, as in the past, treat the question as not its concern. In the second case some change in the arrangement of time would be required, particularly

in the case of laboratory work. During the existence of the Students' Army Training Corps some of the laboratories were open on certain evenings of the week, and no small amount of relief from an overcrowded time table might be permanently provided in that way.

When we pass from the College to the professional schools we find that they have all been affected by the war, but in very different ways. The Law School, the School of Business Administration, the Divinity School, and the Schools of Architecture and Landscape Architecture lost students very heavily and in consequence have suffered a loss of income. This has been particularly serious in the first two of these departments. The Law School, which in 1916 had 856 students, had in the autumn of 1918 only 68. The School of Business Administration, which in 1916 had 182 students taking the regular course, had in the autumn of 1918 only 30 — a special military course in Supply having temporarily 19 more. In the Schools of Architecture and Landscape Architecture, where the numbers were smaller, the losses were not so great in amount, but much the same in proportion. All these professional schools will no doubt soon have a large number of men entering their doors, but the upper classes will not recover their normal size for some time to come, and in the meanwhile the Faculties will find it hard to meet their expenses.

In spite of the loss of students caused by the war the past year has been an interesting one for the Divinity School. At the close of a conference of Baptist Schools of Theology, held at the Newton Theological Institution, President Horr suggested a general meeting of all such schools to discuss the educational problems arising out of the war and the conditions that would follow its close. He thought that a conference of this kind could best be called together by a university and preferably by Harvard. The suggestion was gladly adopted, and invitations were sent out for a conference which met in Cambridge on August 13th to 16th. There were actually present delegates from forty-nine schools belonging to fifteen different denominations, the number of men in attendance being one hundred and twenty-four. The discussions covered a wide range, and the harmony in the point of view, the consciousness of identity in aims and in the problems to be solved, was notable. The general impression of the meeting was highly gratifying, and

may lead to a greater community of action and closer coöperation among theological schools in the future. The affiliation between our Divinity School and its neighbors has certainly been fruitful, not only in enlarging the means of education, but also in the cordial relations it has produced.

Unlike the other parts of the University the Medical and Dental Schools lost comparatively few students, because our Government, profiting by the experience of the Allies, enrolled these students in the Medical Reserve Corps and directed them to complete their professional training before going into active service. But the reductions in the instructing staff have been very large, especially, although by no means exclusively, among the clinical teachers. The records of the Corporation show leaves of absence voted in one hundred and one cases. Nevertheless, the Schools have not only carried on their complete programmes of study, but the Medical School conducted, this year as last, a summer term for the third-year men to enable those who so desired to graduate in February instead of June — and by far the larger part of the class took advantage of this opportunity.

Many of the instructors in the Medical and Dental Schools left to serve in the Surgical Units in France. Two of these units have borne the name of the University. The first, that which was organized to serve with the British forces in the spring of 1915, has had charge of Field Hospital No. 22 near Boulogne continuously from that time until after the close of the war. The names of the surgical staff of this hospital through the winter of 1916-17 were printed in the appendices to the reports for 1914-15 and 1915-16. Thereafter and until the end, Dr. Hugh Cabot has been the Chief Surgeon, and on the retirement of Sir Allan Perry in November, 1917, he was appointed Director of the Hospital. For him and his companions it has been a heavy sacrifice undertaken before this country entered the war, but the service rendered has been great. The other Harvard hospital unit was organized in connection with the Peter Bent Brigham Hospital, with Dr. Harvey Cushing as Chief Surgeon. It was an American unit under the command of an American officer, but it happened to find itself also placed near Boulogne close beside the earlier Harvard unit. Several of the members, including Dr. Cushing, were transferred to other duties. The Director of the hospital himself was so transferred, Dr. Roger I. Lee

being appointed in his place, and when he was in turn transferred Dr. Henry Lyman was put in charge. Both of these units have reflected great credit upon the School, and the last reports of Dr. Cabot and Dr. Lyman are printed herewith among the reports of the Deans and Directors.

Thanks to the enterprise of Dr. F. C. Shattuck the Medical School has been enabled to undertake the highly important work of study and instruction in industrial hygiene, in the causes and prevention of illness in establishments for manufacture and trade. Few subjects are so vital as this to the health of our people and to the prosperity and comfort of our community. It enters the field, not only of occupational diseases and of preventing the spreading of epidemics, but also of maintaining healthy and vigorous conditions amid the exacting and monotonous labor of modern industrial life.

The question of reorganizing the instruction in engineering and mining in accordance with the decision of the Supreme Judicial Court of the Commonwealth has been very carefully considered by the professors of these subjects and the two Governing Boards. It seemed clear that the opinion of the Court required the instruction to be directed by a Faculty composed of men appointed and controlled by Harvard University. But, on the other hand, the decision does not exclude all possible coöperation by that Faculty with another institution, if beneficial to its students by saving duplication in laboratories or by enriching the instruction thereby offered. Pursuant to the advice of the instructing staff the Corporation adopted and the Board of Overseers approved the following plan for the Harvard Engineering School.

#### PROPOSED PLAN FOR AN ENGINEERING SCHOOL AT HARVARD UNIVERSITY

**WHEREAS:** In reconstructing an engineering school in Harvard University it is important to lay stress upon fundamental principles; to make use of the courses in Harvard College so far as is consistent with the curriculum of the school; and to conduct the school under a Faculty of its own, the Corporation hereby adopts the following plan of organization:

1. *Name.* The name of the School shall be the Harvard Engineering School.
2. *Departments.* The School shall provide "all grades of instruction from the lowest to the highest" and the instruction provided shall "be kept accessible to pupils who have had no other opportunities of previous

education than those which the free public schools afford." For the present, the departments of study offered shall be the following:

Mechanical Engineering.  
Civil Engineering.  
Sanitary Engineering.  
Electrical Engineering.  
Mining and Metallurgy.  
Industrial Chemistry.

3. *Admission.* Inasmuch as the entrance examinations to Harvard College now admit freely boys from good high schools, the requirements for admission to the Engineering School shall be the same as for admission to Harvard College. Admission to advanced standing and special study shall be administered by the Engineering Faculty.

4. *Fees.* The fees of students in the School shall be the same as for students in Harvard College, except that supplementary fees for additional or for laboratory courses may be charged.

5. *Class-rooms and laboratories.* The work of the School shall be carried on in the class-rooms and laboratories of the University, but arrangements may be made from time to time for the use of the facilities of other institutions for any part of the work (in its advanced technical courses) when the needs, financial resources, and best interests of the School so require.

Arrangements for the use of facilities of other institutions, or the interchange of instruction, shall be made for a period of only one year at a time.

When there shall be income from the funds of the McKay endowment available, in the judgment of the President and Fellows, for the construction of new buildings for the Engineering School, containing offices, laboratories, work-rooms and class-rooms, such buildings are to be constructed on Harvard University grounds and bear the name of Gordon McKay.

6. *Faculty.* The Faculty of the School shall consist of the President of the University and of those professors, associate professors, assistant professors, and instructors appointed for more than one year, the greater part of whose work of instruction is done in the School, and of a limited number of other teachers of subjects offered in the School to be appointed in the usual way. The term of appointment of a teacher from any other institution who gives instruction in the School shall be for one year only; his title shall be lecturer, instructor, or assistant.

The Faculty shall, under the direction of the Corporation, have control of all instruction given in the School wherever the instruction may be given.

7. *Degrees.* A student satisfactorily fulfilling the requirements of a prescribed four-year program in any of the engineering fields shall be awarded the degree of Bachelor of Science in that field.

The degree of Master of Science, or an equivalent degree, shall be awarded upon the successful completion of at least one additional year of study. For the Doctor's degree the requirements shall be similar to those in the Graduate School of Arts and Sciences.

8. *Credit for instruction elsewhere.* As in the case of every other Faculty the Faculty of the Engineering School may, in its discretion, from time to time, allow credit towards the degree under its control for instruction received at another institution or by other instructors.

9. Courses in the School, or the services of its staff, may be made available to qualified students of other institutions.

10. This plan shall be submitted to the Supreme Judicial Court of Massachusetts or a Justice thereof, for approval.

Under this plan negotiations were opened with the Massachusetts Institute of Technology with a view to coöperation for mutual benefit and the public interest, and have not yet been concluded.

Owing to the absence of many members of the instructing and administrative staffs, and the occupation in government service of many of those who remained, owing also to the diversion of generosity to objects connected with the war, there have been fewer new departures than usual in various departments of the University. Yet none of these have failed to carry on their regular work, and for an account of what has been accomplished the reader is referred to the reports of the several Deans and Directors published herewith.

During the academic year and the summer vacation the University has lost three professors by death. On April 6, William Henry Ryder, Andover Professor of New Testament Interpretation, died in the fulness of years and service. He came to Andover Theological Seminary in 1888 to fill the chair which he held until his death, and ten years ago, when the Seminary moved to Cambridge, he became Andover Professor in the University, thus opening his courses to our students under the agreement that has been of great benefit to both institutions. Maxime Bôcher, Professor of Mathematics, died on September 12 after a lingering illness. Except for the time spent in study abroad his whole life since his graduation from the College in 1888 was spent in teaching at Harvard, and his originality as a mathematician and skill as a teacher make his death in middle life peculiarly severe for the University. Five days later died Jens Iverson Westengard, Bemis Professor of International Law. He graduated from the Law School in 1898, taught in the School for eight years, and then went to Siam where, on the death of Professor Strobel in 1909, he became General Adviser to the Siamese Government and a little later a member of the Permanent

Arbitration Court at the Hague. It was only three years ago that he returned to assume the duties of the Bemis Professorship. A still younger life was lost from influenza in an officers' training camp on October 8. It was that of Oric Bates, Curator of African Archaeology and Ethnology; one of the most promising of all the young men attached to the University. On November 4 died James Jackson Putnam, Professor Emeritus of Diseases of the Nervous System, a man of science eminent in his field, a philosopher and a saint.

At the close of 1917 Robert Bacon, who was serving on the staff of General Pershing in France, and was therefore unable to attend the meetings of the Corporation during the war, resigned from that body. In his five years of service he had given a vast deal of time to the University and had done many things to promote its welfare. John Farwell Moors was elected a Fellow in his place. Ephraim Emerton resigned the Winn Professorship of Ecclesiastical History at the close of the academic year. He had been a teacher in the University since 1876 and had held the Winn Professorship since 1882, a life-long service for which the institution and more than a generation of students are grateful. At the same time Edward Hickling Bradford retired from the deanship of the Medical School. He had taught in the School thirty-two years with great distinction when he resigned his Professorship of Orthopedic Surgery in 1912, and was appointed Dean. He met the difficult questions that arose in the School with promptitude and good judgment; and there were many such during the war, when the Government was calling for a large number of our instructors while the instruction had to be kept unimpaired. He was the pilot in a storm to whom we owe much. He has been succeeded by Professor David Linn Edsall.

With the exception of John Livingston Lowes, appointed Professor of English, the appointments to professorships have all been promotions in the existing staff. They were Roger Bigelow Merri-man, Professor of History; Julian Lowell Coolidge, Professor of Mathematics; Paul Terry Cherington, Professor of Marketing in the School of Business Administration; and in the Medical and Dental Schools, Eugene Anthony Crockett, LeCompte Professor of Otology; Paul Thorndike, Clinical Professor of Genito-Urinary Surgery; Varastad Hovhaness Kazanjian, Professor of Military

Oral Surgery; and Worth Hale, Associate Professor of Pharmacology. There have also been a number of appointments of commanding officers of army and navy units. Major William Francis Flynn served as Commandant and Professor of Military Science and Tactics during the term and through the summer camp, when to our regret he was transferred to another post. In September Colonel Charles Andrew Williams was sent as Commandant and appointed Professor, and on his resignation he was succeeded by Major Radcliffe Heermance, in civil life Professor of English at Princeton, who did excellent service until the Corps was demobilized. In the same way Rear-Admiral John Augustus Rodgers, a member of the family that has borne an extraordinary record in the Navy, was appointed Professor of Naval Science and Tactics. The appointment of Commander Nowell as Lecturer on Naval Science and Tactics has already been mentioned; and of the French Officers to whom we owed so much Lieutenant-Colonel Azan and Lieutenant (afterwards Captain) Morize remained as Lecturers. The latter has since been appointed Assistant Professor of French Literature.

The exchanges with France and the Western Colleges were maintained. Professor James Haughton Woods went to Paris, and we received in return Charles Cestre, Professor of the English Language and Literature in the University of Bordeaux. Professor William Henry Schofield went to the five Western Colleges, while from them came Elwood Idell Terry, Professor of Forestry at Colorado College, and Joseph Garfield Wallaser, Associate Professor of English at Grinnell.

On account of the war, with the large demands it has made upon the public, the gifts to the University have been much less than usual — less than half of the amount received in the preceding year. The total amount of gifts was \$1,179,314.55, the single gifts exceeding \$30,000 being as follows:

James Byrne Professorship of Administrative Law .....	\$129,959
The Class of 1893, Twenty-fifth Anniversary Fund .....	100,000
Anonymous, for the study of Industrial Hygiene.....	51,000
Anonymous, in addition to a previous gift .....	50,000
Mrs. S. Parkman Blake, in memory of her husband, for the care of the Yard and grounds .....	50,000
Dr. Henry Isaiah Dorr, in addition to his gift for a Chair of Research and Teaching of Anaesthesia .....	30,000

Of the total gifts \$123,000 was for the Endowment Fund projected before we entered the war, but on which attempts to raise subscriptions were very properly suspended after that time. On the return of peace it is well that the sons and friends of Harvard should again consider her needs. With the rise in all prices, particularly in the necessities of life, which are not likely soon to fall to the old level, the salaries of our instructing staff are lower than they ought to be, as compared with other occupations demanding so high a degree of ability and so long a period of training. The College is also devoting more attention to the individual student with good results, but this means an increase in the staff and thus involves expense. Moreover, if the University is to maintain its rank among institutions of learning, it must improve its equipment and enlarge its staff in several directions. This is notably true of chemistry, which is constantly becoming more important for life and for the industries of the country, while our laboratories have by no means kept pace with our needs or with other universities here and abroad. Nor is chemistry an isolated case. Much is required in other fields to put Harvard where it should be. Some departments like the Dental School are pitifully endowed, and it is a reproach that this School should have to depend on the generosity of its clinical teachers.

The University should be a place, not only for transmitting but also for enlarging knowledge. This of course is done so far as possible; but much more ought to be done. America has proved itself the most inventive of countries. It is, indeed, surprising to reflect how many of the devices that have revolutionized the art of war, as we have witnessed it in the last four years, are the result of American invention; but in contributions to scientific knowledge, to scholarship and to thought, our country has not done its share. With the terrible waste of young and promising life and the destruction of wealth in Europe, it is for us more than ever to contribute to the knowledge and thought of mankind; but for that purpose those of our scholars who have the requisite capacity should be enabled to devote more time to productive work. This cannot be measured by hours, but depends upon the conditions under which the work is done.

Finally we need, perhaps above all else, what we have never had, a mobile fund, the income of which is not mortgaged to any one

department or purpose. By far the greater part of our income is held in trust for some particular object or department, each school living on its own resources. When an opportunity comes to engage in a new work of great importance, there is no means of doing so unless friends interest themselves to raise the sum required, usually for a few years. When a brilliant man appears we must ask ourselves whether there is a vacancy in which he can be placed; but with an unpledged mobile fund it would be possible to retain genius when it could be found. The glory of a university is its great scholars, and they must be taken when they can be had. An unpledged fund would greatly aid the University to do its work in a great way.

A. LAWRENCE LOWELL, *President*.

CAMBRIDGE, January 13, 1919.

# REPORTS OF DEPARTMENTS

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## FACULTY OF ARTS AND SCIENCES

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — I have the honor of presenting a report on the work of the Faculty of Arts and Sciences for the academic year 1917-18.

Besides the President the Faculty contained eighty-six professors, ten associate professors, thirty-nine assistant professors, fifteen lecturers, twenty-one instructors, and the Recorder. In regard to the numbers of the Faculty, statistics at this time are misleading; for many members spent the whole or a large part of the year in the service of the Government.

The visiting professors were Professor Cestre of the University of Bordeaux, Professor Dupriez of the University of Louvain, Professor Terry of Colorado College, and Professor Walliser of Grinnell College.

### *Instruction in 1917-18*

With the following list of courses of instruction that were actually given under the authority of the Faculty, I print a statement of the number and the classification of the students in each course. The figures are those officially returned to the Recorder by the several instructors at the close of the academic year. The abbreviations are those ordinarily used in such lists: *Se.*, Senior; *Ju.*, Junior; *So.*, Sophomore; *Fr.*, Freshman; *Sp.*, Special; *uC.*, Unclassified; *ocC.*, Candidate for the Bachelor's degree out of course; *Gr.*, Graduate School of Arts and Sciences; *G.B.*, Graduate School of Business Administration; *Di.*, Divinity; *And.*, Andover Theological Seminary; *E.T.S.*, Episcopal Theological School; *B.U.*, Boston University; *N.T.I.*, Newton Theological Institution; *L.*, Law School; *Me.*, Medical School; *S.T.M.*, School of Tropical Medicine; *S.A.*, School of Architecture; *S.L.A.*, School of Landscape Architecture; *B.I.*, Bussey Institution; *R.*, Radcliffe College; *M.I.T.*, Massachusetts Institute of Technology; *Instr.*, Instructor.

## GROUP I

## SEMITIC LANGUAGES AND HISTORY

*For Undergraduates and Graduates: —*

- E1. Professor KELLNER. — Hebrew. Harper's Elements of Hebrew. Harper's Introductory Hebrew Method and Manual. Selections from the prose narratives of the Old Testament. 1 Ju., 4 So., 2 Di. Total 7.
2. Professor LYON. — Hebrew. Syntax. Extensive reading in the Old Testament. 1 Gr., 1 Se., 2 Ju., 1 So. Total 5.
8. Dr. WOLFSON. — Post-Biblical Hebrew. Selections from the Talmud, Midrash, and Biblical commentaries. 2 Gr., 1 Ju., 1 So. Total 4.
- 9 <sup>1</sup>/<sub>2</sub>f. Dr. WOLFSON. — Jewish Literature and Life from the Second Century to the Present Time. 1 Gr., 2 Se., 4 Ju., 4 So. Total 11.
- 21 <sup>1</sup>/<sub>2</sub>f. Dr. WOLFSON. — Introduction to Mediaeval Jewish Philosophy. 1 Gr., 1 Se. Total 2.

*Primarily for Graduates: —*

- A4 <sup>1</sup>/<sub>2</sub>f. Professor ARNOLD. — History of Israel. 16 And., 1 Di., 6 E.T.S. Total 23.
- A5. Professor ARNOLD. — Introduction to the Old Testament. History of the text; the formation of the canon; historico-critical study of the origin, form, and contents of the several books. 1 Gr., 10 And., 1 Di. Total 12.
- ‡11. Professor LYON. — Assyrian (second course). Selections from the historical, political, and legal writings. 1 Gr., 1 Di. Total 2.
12. Professor LYON. — History of Babylonia and Assyria. 1 Gr., 1 Di. Total 2.
- ‡13. Professor JEWETT. — Arabic. Socin's Grammar; Brünnow's Chrestomathy. 1 Ju., 1 So. Total 2.
- ‡14. Professor JEWETT. — Arabic (second course). De Goeje's edition of Wright's Grammar; selections from the Qorān, the Hadīth, and classical writers on geography and history. 1 Di. Total 1.
17. Dr. WOLFSON. — Jewish Aramaic. Marti's Biblisch-Aramäische Grammatik; the Aramaic portions of Daniel and Ezra; Inscriptions and Papyri; selections from the Targums; Dalman's Aramäische Dialektproben. 1 Gr., 1 Di. Total 2.
18. Professor JEWETT. — Syriac. — Brockelmann's Syrische Grammatik; selections from the Peshitto. 1 Gr. Total 1.

## INDIC PHILOLOGY

*For Undergraduates and Graduates: —*

- 1a <sup>1</sup>/<sub>2</sub>f. Professor LANMAN. — Elementary Sanskrit. 1 Gr. Total 1.
- 1b <sup>1</sup>/<sub>2</sub>f. Professor LANMAN. — Elementary Sanskrit (continued). Reading of classical texts (Lanman's Reader). Selections from the epic poems and the fable. Bhagavad-Gītā. 1 Gr. Total 1.

## THE CLASSICS

*Primarily for Undergraduates: —*

## GREEK

- G.* Asst. Professor C. N. JACKSON. — Course for Beginners.  
1 Gr., 6 Fr., 2 uC., 1 E.T.S. Total 10.
- A.* Professor CHASE and Mr. HACK. — Greek Literature. Homer, Iliad, Odyssey; Herodotus. 1 Ju., 3 So., 10 Fr., 2 uC. Total 16.
- B.* Professors GULICK and CHASE, Asst. Professor C. N. JACKSON, and Mr. HACK. — Greek Literature. Plato; Lysias; Elegiac, Iambic, and Lyric Poets; Euripides. Lectures on the History of Greek Literature.  
2 So., 11 Fr. Total 13.
- E hf.* Professor WEIR SMYTH. — Greek Prose Composition (first course).  
2 So., 2 Fr. Total 4.
2. Asst. Professor C. N. JACKSON. — Greek Literature. Aristophanes; Thucydides; Aeschylus; Sophocles. 4 Ju., 9 So. Total 13.
- 3 *hf.* Professor GULICK. — Greek Prose Composition (second course).  
2 Ju., 5 So. Total 7.

## LATIN

- A.* Mr. HACK. — Latin Literature. Cicero (selected speeches); Virgil.  
1 Gr., 1 So., 4 Fr., 1 uC. Total 7.
- B.* Professors A. A. HOWARD and E. K. RAND, and Mr. HACK. — Latin Literature. Livy; Terence; Horace, and other Latin Poets.  
1 Ju., 5 So., 51 Fr. Total 57.
- E hf.* Professor A. A. HOWARD. — Latin Composition (first course). Translation of English narrative. 3 So., 3 Fr. Total 6.
1. Professor CLIFFORD H. MOORE. — Latin Literature. Tacitus; Catullus; Horace. 1 Ju., 12 So., 2 uC., 1 Fr. Total 16.
- 3 *hf.* Professor CLIFFORD H. MOORE. — Latin Composition (second course).  
1 Ju., 6 So. Total 7.

*For Undergraduates and Graduates: —*

## GREEK

6. Professor WEIR SMYTH and Professor GULICK. — Greek Literature. Demosthenes, Aeschines, Aeschylus, Sophocles, Aristophanes.  
1 Gr., 2 Ju. Total 3.
- 7 *hf.* Professor GULICK. — Greek Prose Composition (third course).  
3 Gr. Total 3.
8. Professor GULICK. — Plato (Republic); Aristotle (Ethics); Survey of Greek Philosophy from Thales to Aristotle.  
2 Gr., 6 Se., 2 Ju. Total 10.
12. Professor WEIR SMYTH. — History of Classical Greek Literature.  
2 Gr., 1 Se., 1 Ju., 1 Fr. Total 5.

## LATIN

6. Professor A. A. HOWARD. — Latin Literature. Suetonius; Pliny; Juvenal; Martial. 1 Gr., 5 Ju., 1 Di. Total 7.
- 7 *hf.* Professor E. K. RAND. — Latin Composition (third course). 2 Gr. Total 2.
8. Mr. HACK. — Latin Literature. Cicero; Lucretius; Plautus. 3 Gr., 5 Se., 2 Ju., 1 uC. Total 11.
10. Professor CLIFFORD H. MOORE. — A Survey of Roman Civilization. 2 Se., 3 Ju., 2 So. Total 7.

## CLASSICAL PHILOLOGY

*Primarily for Graduates: —*

- 25  $\frac{1}{2}$  *hf.* Asst. Professor C. N. JACKSON. — Introduction to the Interpretation and Criticism of Classical Authors. History of Classical Studies. 3 Gr. Total 3.
- †23. Professor WEIR SMYTH. — Aeschylus. 2 Gr. Total 2.
- †44  $\frac{1}{2}$  *hf.* Professor WEIR SMYTH. — Thucydides. 3 Gr. Total 3.
- †24  $\frac{1}{2}$  *hf.* Professor CLIFFORD H. MOORE. — The Works of Caesar. 3 Gr., 1 uC., 1 R. Total 5.
- †61  $\frac{1}{2}$  *hf.* Professor E. K. RAND. — Platonism from Cicero to Boethius. 3 Gr. Total 3.
- 49  $\frac{1}{2}$  *hf.* Professor A. A. HOWARD. — Introduction to Latin Palaeography. 3 Gr. Total 3.
- Comparative Literature 5  $\frac{1}{2}$  *hf.* (See Comparative Literature, p. 41.)

20. *The Seminary of Classical Philology*

Professors A. A. HOWARD and GULICK, Directors for 1917-18. — Training in philological criticism and research. Text-criticism and interpretation of Greek and Latin authors: for 1917-18, the Mimes of Herodas and Suetonius. 1 Gr. Total 1.

## CLASSICAL ARCHAEOLOGY

*For Undergraduates and Graduates: —*

- 1a  $\frac{1}{2}$  *hf.* Professor CHASE. — Greek Archaeology. 1 Gr., 2 Se. Total 3.
- 1b  $\frac{1}{2}$  *hf.* Professor CHASE. — Etruscan and Roman Archaeology. 1 Se., 1 So. Total 2.

## ENGLISH

## ENGLISH COMPOSITION AND PUBLIC SPEAKING

*Primarily for Undergraduates: —*

- A. Professors BRIGGS and GREENOUGH, Associate Professor WINTER, Mr. HERSEY, Drs. LONG and C. E. WHITMORE, and Messrs. GORDON, B. G. WHITMORE, GOTT, DOUGLAS, and LINDSAY. — Rhetoric and English Composition, Oral and Written. 1 Se., 4 So., 461 Fr., 1 uC. Total 467.
- E. Professor GREENOUGH and Mr. HOOD. — Special Instruction in English for Foreign Students. 4 Gr., 5 Sp. Total 9.
- D<sup>1</sup> or  $\frac{1}{2}$  *hf.* Dr. BAUM. — English Composition. 1 Ju., 18 So., 25 Fr., 9 uC. Total 53.

- F.* Mr. HOOD. — Special Instruction in English Composition.  
Required, 6 Se., 3 Ju., 3 So., 3 Fr., 2 uC. Total 17.  
Volunteer, 4 Gr., 4 Ju., 4 So., 5 Fr., 2 uC., 1 ocC., 1 Sp. Total 21.
31. Professor HURLBUT. — English Composition.  
4 Ju., 5 So., 1 uC. Total 10.
6. Mr. PIER. — English Composition.  
8 Se., 9 Ju., 48 So., 2 Fr., 5 uC., 2 E.T.S. Total 74.
22. Dr. MAYNADIER, assisted by Mr. COUES. — English Composition.  
1 Gr., 8 Se., 17 Ju., 12 So., 3 uC., 2 ocC. Total 43.
- B<sup>1</sup>/<sub>2</sub> Mr. MASTERSON. — Training in Speech. — Elementary Course.  
5 Fr. Total 5.
- 10 *h*f. Associate Professor WINTER and Mr. MASTERSON. — Public Speaking.  
Vocal training and platform practice.  
9 Se., 15 Ju., 30 So., 11 Fr., 4 uC., 2 ocC. Total 71.
- 10*b* *h*f. Associate Professor WINTER. — Vocal Interpretation of English Prose  
and Poetry. Studies in selected story and drama; vocal practice.  
4 Se., 4 Ju., 8 So., 2 Fr., 1 uC. Total 19.
18. Mr. STONE. — The Forms of Public Address.  
3 Se., 8 Ju., 3 So., 1 uC. Total 15.

*For Undergraduates and Graduates: —*

12. Associate Professor COPELAND. — English Composition.  
1 Gr., 9 Se., 15 Ju., 13 So., 4 uC., 1 Sp. Total 43.

*Primarily for Graduates: —*

67. Professor GREENOUGH. — English Composition.  
8 Gr., 1 ocC. Total 9.
5. Professor BRIGGS. — English Composition (advanced course).  
4 Gr., 1 G.B., 5 Se., 3 Ju., 4 So., 2 ocC., 1 uC., 1 Sp., 1 N.T.I. Total 22.
47. Professor BAKER. — English Composition. The Technique of the  
Drama.  
1 Gr., 1 Se., 2 Sp. Total 4.
- 47*a*. Professor BAKER. — The Technique of the Drama (advanced course).  
2 Gr., 4 Sp. Total 6.

ENGLISH LANGUAGE AND LITERATURE

*Primarily for Undergraduates: —*

28. Professors BRIGGS, KITTREDGE, BAKER, and HURLBUT, and Mr. GORDON. — History and Development of English Literature in outline.  
1 Se., 4 So., 59 Fr., 1 uC. Total 65.
41. Professor BLISS PERRY and Mr. GORDON. — History of English Literature from the Elizabethan times to the present.  
1 Gr., 8 Se., 8 Ju., 37 So., 4 Fr., 6 uC., 1 ocC. Total 65.
- 37 <sup>3</sup>/<sub>2</sub> Dr. MAYNADIER. — The Story of King Arthur.  
4 Se., 14 Ju., 5 So., 2 Fr., 2 uC., 1 ocC. Total 28.

*For Undergraduates and Graduates: —*

- 3*a* <sup>1</sup>/<sub>2</sub> Dr. BAUM. — Anglo-Saxon. 6 Gr., 3 Se., 6 Ju., 1 So. Total 16.
1. Professor F. N. ROBINSON and Dr. BAUM. — Chaucer.  
7 Gr., 3 Se., 7 Ju., 1 So., 1 uC. Total 19.

- 35a <sup>1</sup>/<sub>2</sub>f. Professor LAKE. — The English Bible: The Old Testament.  
1 Gr., 12 Se., 15 Ju., 10 So., 1 uC. Total 39.
- 35b <sup>2</sup>/<sub>3</sub>f. Professor ROPES and Professor LAKE. — The English Bible: The New Testament.  
2 Gr., 5 Se., 17 Ju., 9 So., 1 Fr., 1 uC. Total 35.
2. Professor KITTREDGE. — Shakspeare.  
5 Gr., 11 Se., 29 Ju., 19 So., 5 uC., 1 Sp., 1 E.T.S. Total 71.
- 11a <sup>1</sup>/<sub>2</sub>f. Dr. BAUM. — Bacon. 1 Gr., 2 Se., 5 Ju., 3 So. Total 11.
- 11b <sup>2</sup>/<sub>3</sub>f. Dr. BAUM. — Milton. 3 Gr., 2 Se., 7 Ju., 4 So., 2 uC. Total 18.
- 64 <sup>1</sup>/<sub>2</sub>f. Professor HURLBUT. — Pope and his Time. 2 Se., 2 So. Total 4.
- 52 <sup>2</sup>/<sub>3</sub>f. Associate Professor COPELAND. — Johnson and his Circle.  
1 Gr., 14 Se., 24 Ju., 31 So., 6 Fr., 4 uC., 1 Sp. Total 81.
- 69 <sup>1</sup>/<sub>2</sub>f. Dr. MAYNADIER. — English and American Historians.  
1 Gr., 6 Se., 2 Ju., 2 So., 1 Fr., 1 uC. Total 13.
- 72 <sup>1</sup>/<sub>2</sub>f. Professor CHARLES CESTRE (University of Bordeaux). — The English Romantic Poets. 7 Gr., 11 Se., 11 Ju., 1 So., 1 ocC. Total 31.
- †73 <sup>1</sup>/<sub>2</sub>f. Professor CHARLES CESTRE (University of Bordeaux). — The Influence of the French Revolution on English Literature.  
2 Gr., 1 G.B., 7 Se., 5 Ju., 2 So., 1 uC. Total 18.
33. Professor GREENOUGH and Mr. MARRINER. — American Literature.  
5 Gr., 9 Se., 17 Ju., 19 So., 4 Fr., 4 uC., 1 ocC., 1 Sp. Total 60.
- 16 <sup>2</sup>/<sub>3</sub>f. Professor BRIGGS. — History and Principles of English Versification.  
3 Gr., 3 Se., 4 Ju., 5 So., 1 Fr., 2 uC., 1 ocC. Total 19.
- Primarily for Graduates: —*
- 3b <sup>2</sup>/<sub>3</sub>f. Professors KITTREDGE and F. N. ROBINSON. — Anglo-Saxon. *Béowulf*.  
7 Gr., 1 Se. Total 8.
- 4 <sup>2</sup>/<sub>3</sub>f. Professor F. N. ROBINSON. — Early English. English Literature from 1200 to 1450. *Mätzner's Altenglische Sprachproben*. 9 Gr. Total 9.
- Comparative Literature 25 <sup>1</sup>/<sub>2</sub>f. (See Comparative Literature, p. 41.)
- 44 <sup>2</sup>/<sub>3</sub>f. Professor KITTREDGE. — Chaucer. 9 Gr. Total 9.
39. Professor BAKER and Professor MALCOLM McLEOD (Carnegie Institute, Pittsburgh). — The Drama in England from 1642 to 1900.  
8 Gr., 1 Se., 6 Ju., 1 So. Total 16.
- 59 <sup>2</sup>/<sub>3</sub>f. Professor BLISS PERRY. — The English Critical Essay.  
6 Gr. Total 6.

*Courses of Special Study*

20. The Instructors in English held themselves ready to assist and advise competent Graduate Students who might propose plans of special study in the English language or literature. Such plans, however, must in each case have met the approval of the Department.
- |                        |       |          |
|------------------------|-------|----------|
| Professor BRIGGS.      | 1 Gr. | Total 1. |
| Professor BLISS PERRY. | 2 Gr. | Total 2. |
| Professor KITTREDGE.   | 3 Gr. | Total 3. |
| Professor BAKER.       | 3 Gr. | Total 3. |
| Professor BABBITT.     | 1 Gr. | Total 1. |
| Professor ROBINSON.    | 2 Gr. | Total 2. |
| Professor GREENOUGH.   | 6 Gr. | Total 6. |

## GERMANIC LANGUAGES AND LITERATURES

## GERMAN

*Primarily for Undergraduates: —*

- A. Associate Professor BIERWIRTH, Drs. LIEDER, PETTENGILL, SCHOENEMANN, HERRICK, and BURKHARD, and Mr. BREWER. — Elementary Course. 7 Gr., 1 Ju., 10 So., 170 Fr., 8 uC. Total 196.
- B. Dr. HERRICK. — Elementary Course (counting as two courses). 1 Gr., 1 So., 4 Fr. Total 6.
- 1a. Asst. Professor W. G. HOWARD and Dr. PETTENGILL. — German Prose and Poetry. 4 Ju., 18 So., 10 Fr., 1 uC. Total 33.
- 1b. Drs. LIEDER and PETTENGILL. — German Prose. Subjects in History and Biography. 1 Gr., 8 So., 8 Fr., 1 uC., 1 Di. Total 19.
- 1c. Dr. LIEDER. — German Scientific Prose. Subjects in Natural Science. 1 Se., 6 Ju., 21 So., 11 Fr., 2 uC. Total 41.
- F<sup>1</sup>/<sub>2</sub>f. Dr. HERRICK. — Practice in speaking and writing German (first course). 4 Ju., 7 So., 13 Fr., 1 uC., 1 ocC. Total 26.
- H<sup>1</sup>/<sub>2</sub>f. Dr. SCHOENEMANN. — Practice in speaking and writing German (second course). 1 Gr., 1 Se., 5 Ju., 9 So., 5 Fr., 1 uC. Total 22.
- 2a. Professor VON JAGEMANN. — Introduction to German Literature of the Eighteenth and Nineteenth Centuries. Lessing, Goethe, and Schiller. German Ballads and Lyrics. 1 Se., 2 Ju., 5 So., 14 Fr., 3 uC. Total 25.
- 2b. Professor H. S. WHITE and Dr. LIEDER. — Introduction to German Literature of the Eighteenth and Nineteenth Centuries. Lessing, Goethe, and Schiller. German Ballads and Lyrics. 2 Ju., 1 So., 13 Fr. Total 16.
3. Dr. SCHOENEMANN. — Schiller. *Der Dreissigjährige Krieg*; *Wallenstein*; *Maria Stuart*; *Die Jungfrau von Orleans*; *Die Braut von Messina*; *Gedichte*. 1 Se., 4 Ju., 4 So., 2 Fr. Total 11.
4. Professor WALZ. — Goethe. *Works of the Storm and Stress Period*; *autobiographical works*; *poems*; *Egmont*; *Iphigenie*; *Tasso*; *Faust*. 2 Se., 14 Ju., 5 So., 2 Fr., 2 uC. Total 25.
- 5 (formerly 2c). Professor H. S. WHITE and Dr. LIEDER. — German Prose. Subjects in German History. *Freytag*; *Below (Das ältere deutsche Städtewesen und Bürgertum)*; *Richter (Quellenbuch)*. 3 Se., 7 Ju., 8 So., 1 Fr., 1 uC. Total 20.

*For Undergraduates and Graduates: —*

- 18<sup>1</sup>/<sub>2</sub>f. Associate Professor BIERWIRTH. — German Grammar and practice in writing German (advanced course). 1 Gr., 1 Ju., 1 So., 2 ocC. Total 5.
8. Professor WALZ. — German Literature in the Twelfth and Thirteenth Centuries. *Nibelungenlied*; *Kudrun*; *Hartmann*; *Wolfram*; *Walther von der Vogelweide*. Translation into modern German. 3 Gr., 1 Ju., 1 So., 1 ocC. Total 6.
- 6<sup>1</sup>/<sub>2</sub>f. Associate Professor BIERWIRTH. — German Literature of the Eighteenth Century to the Death of Lessing. 1 Gr., 2 Ju., 1 Fr. Total 4.

- 7 <sup>3</sup>/<sub>4</sub>. Associate Professor BIERWIRTH. — German Literature of the Classic Period after Lessing. 2 Gr., 1 Se., 3 Ju., 1 So., 1 Fr., 1 ocC. Total 9.
- Comparative Literature 8 <sup>3</sup>/<sub>4</sub>. (See Comparative Literature, p. 41.)
- 26a <sup>1</sup>/<sub>4</sub>. Asst. Professor W. G. HOWARD. — German Literature in the first half of the Nineteenth Century. Kleist; Uhland; Heine.  
2 Se., 6 Ju., 1 So. Total 9.
- 26b <sup>3</sup>/<sub>4</sub>. Asst. Professor W. G. HOWARD. — German Literature in the second half of the Nineteenth Century. The development of the novel and the drama.  
7 Ju., 1 So., 1 ocC. Total 9.
- 28 <sup>1</sup>/<sub>4</sub>. Professor H. S. WHITE. — Goethe's *Italienische Reise*. Readings and translation, with some examination of the original letters and diaries upon which the narrative is based and with illustrations of the course of Goethe's travels and art studies. 5 Se., 4 Ju., 5 So., 2 ocC. Total 16.

*Primarily for Graduates: —*

- ‡Comparative Literature 28 <sup>1</sup>/<sub>4</sub>. (See Comparative Literature, p. 41.)
- ‡13 <sup>3</sup>/<sub>4</sub>. Asst. Professor W. G. HOWARD. — The Dramatic Works of Friedrich Hebbel.  
3 Gr., 4 R. Total 7.
- ‡12a <sup>1</sup>/<sub>4</sub>. Professor VON JAGEMANN. — Gothic. Introduction to the Study of Germanic Philology. General introduction; phonology.  
14 Gr., 2 R. Total 16.
- ‡15 <sup>3</sup>/<sub>4</sub>. Professor VON JAGEMANN. — Old High German. 2 Gr., 1 R. Total 3.
- ‡21. Professor VON JAGEMANN. — History of the German Language.  
1 Gr. Total 1.

*Seminary Course*

- ‡20a <sup>1</sup>/<sub>4</sub>. Professor WALZ. — Studies in the Literary Relations between England and Germany.  
3 Gr., 1 Ju., 1 ocC., 2 R. Total 7.

## ROMANCE LANGUAGES AND LITERATURES

### FRENCH

*Primarily for Undergraduates: —*

- A. Dr. HAWKINS, Mr. WESTON, and Mr. G. L. LINCOLN. — Elementary Course. French Grammar, Translation, and Composition.  
9 Gr., 1 Ju., 4 So., 96 Fr., 14 uC., 1 Di. Total 125.
1. Dr. HAWKINS, and Messrs. RAICHE and G. L. LINCOLN. — French Prose and Poetry. Translation from French into English.  
2 Gr., 1 Se., 8 Ju., 46 So., 41 Fr., 9 uC. Total 107.
2. Asst. Professor WHITTEM, and Messrs. WESTON, MERCIER, RAICHE, and G. L. LINCOLN. — French Prose and Poetry. Corneille; Racine; Molière; Victor Hugo; Alfred de Musset; Balzac; Flaubert; Daudet; Zola. Composition. 1 Gr., 9 Ju., 42 So., 139 Fr., 5 uC., 2 ocC. Total 198.
3. Mr. RAICHE. — French Composition (elementary course).  
3 Se., 11 Ju., 37 So., 36 Fr., 3 uC. Total 90.
- 4 <sup>1</sup>/<sub>4</sub>. Mr. MERCIER. — French Composition (intermediate course).  
1 Gr., 5 Se., 7 Ju., 14 So., 1 Fr. Total 28

*For Undergraduates and Graduates: —*

- 5 <sup>1</sup>/<sub>2</sub> hf. Mr. MERCIER. — French Composition (advanced course).  
2 Gr., 1 Se., 2 Ju., 9 So., 1 Fr., 1 Sp. Total 16.
6. Professors GRANDGENT and FORD and Asst. Professor ALLARD. — General View of French Literature.  
1 Gr., 2 Se., 29 Ju., 32 So., 5 Fr., 1 uC. Total 70.
8. Asst. Professor ALLARD. — French Literature in the Eighteenth Century.  
5 Gr., 2 Se., 2 Ju. Total 9.
9. Professor WRIGHT. — French Literature in the Seventeenth Century.  
1 Gr., 9 Se., 8 Ju., 6 So. Total 24.
- 11 hf. Dr. HAWKINS. — The History of the Tale and the Novel in France from the Fifteenth to the Nineteenth Century. 2 Gr., 1 Se., 1 Ju. Total 4.
16. Asst. Professor ALLARD. — The Development of the French Drama in the Nineteenth Century. 6 Se., 8 Ju., 4 So., 1 uC. Total 19.

*Primarily for Graduates: —*

12. Professor SHELDON. — Old French Literature. 1 Gr., 1 R. Total 2.
17. Professor BABBITT. — Literary Criticism in France.  
6 Gr., 1 Se. Total 7.
- 22 hf. Professor WRIGHT. — French Prose in the Sixteenth Century. Rabelais; Montaigne. 4 Gr., 2 Se. Total 6.

## ITALIAN

*Primarily for Undergraduates: —*

1. Mr. WESTON. — Italian Grammar, reading, and composition. Modern Italian stories and plays. 1 Gr., 1 Se., 6 Ju., 3 So., 5 Fr. Total 16.

*For Undergraduates and Graduates: —*

2. Professor FORD and Mr. WESTON. — Italian Literature of the Fifteenth and Sixteenth Centuries. Torquato Tasso; Ariosto; Machiavelli; Benvenuto Cellini. 2 Gr., 3 Se. Total 5.
10. Professor GRANDGENT. — The Works of Dante, particularly the Vita Nuova and the Divine Comedy. 2 Gr., 2 Se., 3 Ju. Total 7.

*Primarily for Graduates: —*

13. Professor GRANDGENT. — Beginnings of the Italian Language and Literature. Phonology and Morphology. Minor Authors of the Thirteenth and Fourteenth Centuries. 2 Gr., 1 R. Total 3.

Comparative Literature 17 hf. (See Comparative Literature, p. 41.)

## SPANISH

*Primarily for Undergraduates: —*

1. Asst. Professor WHITTEM, and Messrs. G. L. LINCOLN and RIVERA. — Spanish Grammar, reading, and composition. Modern Spanish novels and plays. 6 Se., 19 Ju., 45 So., 46 Fr., 1 Sp., 1 uC. Total 118.

- 7 <sup>1</sup>/<sub>2</sub> hf. Asst. Professor WHITTEM. — Spanish Composition (elementary course).  
1 Gr., 7 Se., 15 Ju., 6 So. Total 29.

*For Undergraduates and Graduates: —*

- 8 <sup>3</sup>/<sub>4</sub> hf. Mr. RIVERA. — Spanish Composition and Conversation (advanced course). 2 Gr., 4 Se., 9 Ju., 3 So. Total 18.

5. Professor FORD, Asst. Professor WHITTEM, and Mr. RIVERA. — Spanish Prose and Poetry of the Eighteenth and Nineteenth Centuries.  
10 Se., 13 Ju., 11 So., 2 Fr. Total 36.
2. Professor FORD and Asst. Professor WHITTEM. — Spanish Literature of the Sixteenth and Seventeenth Centuries. Cervantes; Lope de Vega; Calderón.  
4 Gr., 3 Se., 4 Ju., 3 So., 1 Fr., 1 uC. Total 16.

*Primarily for Graduates: —*

Comparative Literature 17 hf. (See Comparative Literature, p. 41.)

#### ROMANCE PHILOLOGY

*Primarily for Graduates: —*

3. Professor SHELDON. — Old French. Phonology and inflections. The oldest texts. La Chanson de Roland; Chrétien de Troyes; Aucassin et Nicolette.  
16 Gr., 1 Ju. Total 17.
- ‡5 hf. Professor GRANDGENT. — Vulgar Latin.  
2 Gr., 4 R. Total 6.
- ‡6 ½ hf. Professor FORD. — Portuguese. Language and Literature. Old Portuguese lyric verse: Gil Vicente; Sá de Miranda; Camões.  
1 Gr., 1 Se. Total 2.

#### *Courses of Special Study*

20. The Instructors in Romance Languages held themselves ready to assist and advise competent Graduate Students in plans of special study, linguistic or literary.  
3 Gr. Total 3.

#### ‡Seminary

Students and instructors met once in two weeks, for the discussion of theses and for research in special fields. During 1917-18, special topics were discussed under the direction of Professor SHELDON and Asst. Professor ALLARD.

#### CELTIC

*Primarily for Graduates: —*

- 1 ½ hf. Professor F. N. ROBINSON. — Old Irish. Grammar and interpretation of texts. Thurneysen's Handbuch des Altirischen. General introduction to Celtic philology.  
2 Gr. Total 2.
- 2 ½ hf. Professor F. N. ROBINSON. — Middle Irish. Windisch's Irische Texte.  
2 Gr. Total 2.

#### *Course of Special Study*

20. Professor F. N. ROBINSON. — Investigation of Special Subjects in Celtic Philology.  
2 Gr. Total 2.

#### SLAVIC LANGUAGES

*For Undergraduates and Graduates: —*

- 1a. Professor WIENER. — Russian.  
1 Gr., 3 Ju., 2 So. Total 6.
- 1b. Professor WIENER. — Russian. Literature of the Nineteenth Century. Pushkin; Gogol; Turgenev; Tolstoy.  
1 Se., 1 So. Total 2.
- 2b. Professor WIENER. — Polish. Literature of the Nineteenth Century. Mickiewicz; Krasinski; Slowacki; Pol; Kalina; Sienkiewicz.  
1 Se. Total 1.

4 <sup>1</sup>/<sub>2</sub>f. Professor WIENER. — Introduction to the History of Russian Literature. 7 Se., 7 Ju., 3 So., 1 Fr., 1 uC., 3 ocC. Total 22.

5 <sup>1</sup>/<sub>2</sub>f. Professor WIENER. — Tolstoy and his Time. 2 Gr., 6 Se., 12 Ju., 5 So., 1 Fr. Total 26.

*Primarily for Graduates: —*

3a <sup>1</sup>/<sub>2</sub>f. Professor WIENER. — Old Church Slavic. Leskien's Handbuch der Altbulgarischen Sprache. 1 Se. Total 1.

3b <sup>1</sup>/<sub>2</sub>f. Professor WIENER. — General Survey of Slavic Philology. 1 Se. Total 1.

### COMPARATIVE LITERATURE

*For Undergraduates and Graduates: —*

30 <sup>1</sup>/<sub>2</sub>f. Professor WRIGHT. — The Literary Relations of France and England in the Sixteenth and Seventeenth Centuries.

1 Gr., 4 Se., 2 Ju. Total 7.

11. Professor BABBITT. — The Romantic Movement in the Nineteenth Century. 10 Gr., 7 Se., 12 Ju., 3 So., 1 ocC., 1 Sp. Total 34.

12 <sup>1</sup>/<sub>2</sub>f. Professor BLISS PERRY, assisted by Dr. BAUM. — Types of Fiction in the Eighteenth and Nineteenth Centuries.

6 Gr., 42 Se., 55 Ju., 29 So., 2 uC., 3 ocC., 2 Sp. Total 139.

8 <sup>1</sup>/<sub>2</sub>f. Professor WALT. — Goethe's Faust; with a Study of Kindred Dramas in European Literature.

1 Gr., 2 Se., 5 Ju., 3 So., 1 Fr., 1 uC. Total 13.

*Primarily for Graduates: —*

5 <sup>1</sup>/<sub>2</sub>f. Professor E. K. RAND. — The History of Classical Culture in the Middle Ages. 10 Gr. Total 10.

17 <sup>1</sup>/<sub>2</sub>f. Professor FORD. — The History of the Novel and the Tale in Italy and Spain from the Beginning of the Mediaeval Period to the Eighteenth Century. 2 Gr. Total 2.

25 <sup>1</sup>/<sub>2</sub>f. Professor KITTREDGE. — The English and Scottish Popular Ballads. 12 Gr. Total 12.

128 <sup>1</sup>/<sub>2</sub>f. Asst. Professor W. G. HOWARD. — German Literature in the Sixteenth Century and its Relation to English Literature. Brant, Hutten, Luther, Hans Sachs, Fischart. Popular literature in prose and verse. The drama. 4 Gr., 1 Ju., 1 R. Total 6.

#### *Course of Special Study*

20. Professor KITTREDGE. — Original Investigation in Special Topics. 3 Gr. Total 3.

### THE FINE ARTS

*Primarily for Undergraduates: —*

1a. Asst. Professor POPE and Mr. MOWER. — Principles of Drawing and Painting, with elementary practice. 3 So., 10 Fr., 1 Sp. Total 14.

*For Undergraduates and Graduates: —*

1c <sup>1</sup>/<sub>2</sub>f. Professor CHASE, assisted by Mr. COOK. — The History of Ancient Art. 2 Se., 21 Ju., 29 So., 5 Fr., 2 uC., 2 ocC., 1 Sp. Total 62.

- 1d <sup>1</sup>/<sub>2</sub>f. Asst. Professor EDGELL, assisted by Mr. COOK. — The History of Mediaeval, Renaissance, and Modern Art.  
10 Se., 22 Ju., 39 So., 14 Fr., 2 uC., 1 ocC., 1 Sp. Total 89.
- 1f. Professor PRAY. — Principles of Landscape Architecture, illustrated by a study of examples. 1 So., 1 Sp., 2 S.L.A. Total 4.
- 2a. Asst. Professor POPE. — Freehand Drawing.  
2 Ju., 5 So., 3 Fr. Total 10.
- 2b. Asst. Professor POPE. — Freehand Drawing (second course).  
1 Se., 1 Ju., 3 So., 1 ocC. Total 6.
- 2c. Asst. Professor POPE. — Drawing and Painting (advanced course).  
2 Se., 2 Ju., 1 So., 1 Fr., 1 ocC. Total 7.
- 2f <sup>1</sup>/<sub>2</sub>f. Mr. FROST. — Perspective. The theory of perspective and its application to architectural subjects. 1 Ju., 1 S.A. Total 2.
- 2g. Mr. FROST. — The Forms of Ancient and of Early Mediaeval Architecture, with special reference to the Classic Styles.  
1 Se., 3 Ju., 1 ocC., 2 S.A., 1 R. Total 8.
- 3a. Mr. C. HOWARD WALKER. — History of the Ancient and Early Mediaeval Styles of Architecture. 1 Se., 4 Ju., 2 So., 5 S.A. Total 12.
- 3b <sup>1</sup>/<sub>2</sub>f. Professor CHASE. — The History of Greek Sculpture.  
3 Se., 2 Ju., 2 So. Total 7.
- 4a <sup>1</sup>/<sub>2</sub>f. Mr. C. HOWARD WALKER. — History of the Gothic Styles of Architecture. 1 Se., 1 Ju., 2 S.A. Total 4.
- 5a <sup>1</sup>/<sub>2</sub>f. Mr. C. HOWARD WALKER. — History of Renaissance and Modern Architecture. 1 Se., 1 Ju., 3 S.A. Total 5.
- 5e <sup>1</sup>/<sub>2</sub>f. Dr. WINSHIP. — The History of the Printed Book.  
1 G.B., 8 Se., 2 Ju. Total 11.
- 5h <sup>1</sup>/<sub>2</sub>f. Asst. Professor EDGELL. — The History of Florentine Painting.  
1 Gr., 5 Se., 2 Ju., 2 So. Total 10.
- 10b. Mr. FROST, with occasional criticism by Associate Professor HUMPHREYS. — Elementary Architectural Design. Elements of Architectural Form. The Orders. Introductory Problems in Architectural Design.  
1 S.A. Total 1.

*Primarily for Graduates: —*

- 20 <sup>1</sup>/<sub>2</sub>f. Asst. Professor POPE. — Art of the Far East. 1 Se., 1 Ju. Total 2.

*Courses of Special Study*

- 20a <sup>1</sup>/<sub>2</sub>f. Mr. CARRINGTON. — History of Engraving. 3 Se., 1 R. Total 4.
- 20i <sup>1</sup>/<sub>2</sub>f. Dr. WINSHIP. — History of Printing. 3 Se., 1 Ju. Total 4.

MUSIC

*For Undergraduates and Graduates: —*

1. Asst. Professor HEILMAN. — Harmony, the Grammar of Music.  
3 Ju., 3 So., 13 Fr., 2 Sp., 6 R. Total 27.
- 1a. Asst. Professor DAVISON. — Advanced Harmony and Harmonic Analysis. 1 Ju., 3 So., 2 Sp., 4 R. Total 10.
2. Asst. Professor DAVISON. — Counterpoint.  
1 Se., 3 Ju., 1 So., 1 Sp. Total 6.

3. Mr. E. B. HILL. — History of Music from the time of Bach to the present day. 3 Se., 10 Ju., 8 So., 2 Fr., 1 uC., 1 ocC. Total 25.
4. Associate Professor SPALDING and Mr. BALLANTINE. — The Appreciation of Music; analytical study of masterpieces from the point of view of the listener. 8 Se., 15 Ju., 16 So., 2 Fr. Total 41.

*Primarily for Graduates: —*

5. Associate Professor SPALDING. — Canon and Fugue. 1 Se. Total 1.
16. Mr. E. B. HILL. — Instrumentation. 2 Se., 3 Ju., 1 Sp., 1 R. Total 7.
20. Advanced Work in Original Composition. 1 Ju. Total 1.

## GROUP II

### HISTORY OF SCIENCE

*For Undergraduates and Graduates: —*

1. Asst. Professor HENDERSON. — History of the Physical and Biological Sciences (introductory course). 1 Se., 8 Ju., 1 So., 1 uC., 1 Sp. Total 12.
- 2a <sup>1</sup>/<sub>2</sub>. Dr. SARTON. — History of Physics to (and including) Newton. 1 Gr., 1 Se., 1 ocC. Total 3.
- 2b <sup>1</sup>/<sub>2</sub>. Dr. SARTON. — History of Physics in the Eighteenth and Nineteenth Centuries. 2 Gr., 1 Se., 3 Ju., 1 ocC. Total 7.
- 3 <sup>3</sup>/<sub>4</sub>. Dr. SARTON. — Science and Civilization in the Fifteenth and Sixteenth Centuries. 3 Se., 4 Ju. Total 7.

### PHYSICAL SCIENCES

#### PHYSICS

*Primarily for Undergraduates: —*

- B. Professor HALL and Dr. NUSBAUM. — Elementary Physics. 2 Se., 2 Ju., 9 So., 23 Fr., 6 uC., 1 ocC. Total 43.
- C. Professor SABINE, Dr. BRINSMADE, Mr. C. W. MILLER, and Mr. SCHAEFFER. — Experimental Physics. — Mechanics, Sound, Heat, Light, Magnetism, and Electricity. 3 Gr., 2 Se., 12 Ju., 30 So., 66 Fr., 4 uC. Total 117.
1. Professor HALL and Dr. GARDNER. — General Descriptive Physics. 1 Gr., 3 Se., 8 Ju., 16 So., 16 Fr. Total 44.

*For Undergraduates and Graduates: —*

- 2 <sup>1</sup>/<sub>2</sub>. Dr. GARDNER. — Light. 2 Gr. Total 2.
3. Asst. Professor CHAFFEE and Mr. C. G. SMITH. — Electrostatics, Electrokinematics, and parts of Electromagnetism. 1 Gr., 5 Ju., 4 So. Total 10.
- 4a <sup>1</sup>/<sub>2</sub>. Asst. Professor CHAFFEE. — The Theory of Transient Phenomena and Alternating Currents. 2 Gr., 1 Se., 2 Ju., 2 So. Total 7.
- 4b <sup>1</sup>/<sub>2</sub>. Asst. Professor CHAFFEE and Mr. FIELD. — Maxwell's Electromagnetic Theory. Electric Oscillations and Electric Waves. 2 Gr., 4 M.I.T. Total 6.

4c <sup>1</sup>/<sub>2</sub>f. Asst. Professor CHAFFEE and Mr. FIELD. — Radiotelegraphy.  
3 Gr., 1 M.I.T. Total 4.

5. Professor SABINE. — Light. 2 Gr. Total 2.

6a <sup>1</sup>/<sub>2</sub>f. Professor HALL. — Elements of Thermodynamics.  
3 Gr., 3 Se. Total 6.

6b <sup>1</sup>/<sub>2</sub>f. Professor HALL. — Modern Developments and Applications of Thermodynamics.  
3 Gr., 1 Se. Total 4.

*Primarily for Graduates: —*

*Courses of Research*

20a. Professor HALL. — Heat and Electricity. 1 Gr. Total 1.

20d. Professor DUANE. — Radioactivity. 2 Gr. Total 2.

20h. Asst. Professor CHAFFEE. — Electric Oscillations. 1 Gr. Total 1.

ENGINEERING SCIENCES

*Primarily for Undergraduates: —*

3. Associate Professor KENNEDY, and Messrs. NINDE and THOROGOOD. — Mechanical Drawing. Use of instruments. Projections and descriptive geometry. Freehand sketching. Tracing and blue printing.  
2 Se., 9 Ju., 20 So., 5 Fr. Total 36.

3b. Mr. FROST. — Descriptive Geometry, Stereotomy, Shades and Shadows.  
1 Se., 2 Ju. Total 3.

5a <sup>1</sup>/<sub>2</sub>f. Associate Professor HUNTINGTON, and Messrs. NINDE and THOROGOOD. — Mechanics. 1 Gr., 2 Se., 14 Ju. Total 17.

6a <sup>1</sup>/<sub>2</sub>f. Associate Professor KENNEDY, and Messrs. NINDE and THOROGOOD. — Mechanical Drawing (second course). 3 Se., 14 Ju., 3 So. Total 20.

6b <sup>1</sup>/<sub>2</sub>f. Associate Professor KENNEDY, and Messrs. NINDE and THOROGOOD. — Mechanism. Kinematics as applied to machine elements.  
1 Se., 13 Ju., 2 So. Total 16.

7a <sup>1</sup>/<sub>2</sub>f. Associate Professor HUNTINGTON, and Messrs. NINDE and THOROGOOD. — Mechanics. Dynamics of Moving Bodies; Friction; Efficiency of Machines. 1 Gr., 12 Ju. Total 13.

7b <sup>1</sup>/<sub>2</sub>f. Associate Professor HUNTINGTON, and Messrs. NINDE and THOROGOOD. — Mechanics. Analytical and Graphical Statics; Strength of Materials. 1 Se., 4 Ju. Total 5.

8. Professors MARKS and CLIFFORD, assisted by Messrs. NINDE and THOROGOOD and Mr. DAWES. — Power — its Generation and Transmission. 5 Se., 4 Ju., 3 So. Total 12.

ASTRONOMY

*Primarily for Undergraduates: —*

1. Dr. STETSON and Mr. C. E. KELLEY. — Descriptive Astronomy.  
1 Se., 4 Ju., 3 So., 2 Fr., 3 uC. Total 13.

2a <sup>1</sup>/<sub>2</sub>f. Dr. STETSON. — Nautical Astronomy. Application of Astronomy to navigation and exploration. Time, latitude, and longitude by sextant; azimuth. 1 Se., 4 Ju., 1 So. Total 6.

This course was repeated in the second half-year.

2 Ju., 5 So., 5 Fr., 1 uC. Total 13.

*For Undergraduates and Graduates: —*

- 2b <sup>1</sup>/<sub>2</sub>. Dr. STETSON. — Practical Astronomy. Determination of time with the portable transit. Longitude by moon culminations.  
1 Se., 2 Ju. Total 3.
7. Dr. STETSON. — Elementary Astrophysics. Astronomical Spectroscopy; Solar and Sidereal Physics. 1 Gr., 1 Ju., 1 So. Total 3.

## CHEMISTRY

*Primarily for Undergraduates: —*

- A. Professor KOHLER, Dr. G. A. HILL, Mr. L. I. SMITH, and Mr. ENGELBRECHT, assisted by Messrs. BILLINGS, BOYER, CRUSE, PRICE, and J. F. SMITH. — Elementary Chemistry.  
2 Gr., 1 G.B., 4 Se., 8 Ju., 38 So., 103 Fr., 1 uC., 1 Sp. Total 158.
- B <sup>1</sup>/<sub>2</sub>. Dr. G. A. HILL, assisted by Messrs. BILLINGS, BOYER, CRUSE, and PRICE. — Inorganic Chemistry.  
2 Gr., 3 Se., 8 Jr., 14 So., 74 Fr., 4 uC. Total 105.
- 2 <sup>1</sup>/<sub>2</sub>. Dr. G. A. HILL. — Organic Chemistry (elementary course).  
4 Gr., 7 Se., 14 Ju., 52 So., 9 Fr., 10 uC. Total 96.
- 22 <sup>1</sup>/<sub>2</sub>. Dr. G. A. HILL, assisted by Messrs. MACDONALD, GILMAN, and CHRISTIANSEN. — Experimental Organic Chemistry (elementary course).  
4 Se., 7 Ju., 16 So., 6 uC., 1 ocC. Total 34.
- This course was repeated in the second half-year.  
1 Gr., 1 Se., 5 Ju., 14 So., 5 Fr., 2 uC. Total 28.
3. Asst. Professor G. S. FORBES, assisted by Messrs. SCHUMB, ARONSON, BUMP, and WEATHERILL. — Qualitative Analysis.  
1 Gr., 2 Se., 14 Ju., 36 So., 2 Fr., 3 uC. Total 58.
- 8 <sup>1</sup>/<sub>2</sub>. Professor RICHARDS. — Elementary Theoretical and Physical Chemistry, including the Historical Development of Chemical Theory.  
4 Gr., 2 Se., 12 Ju., 28 So., 62 Fr., 5 uC. Total 113.
- 23 <sup>1</sup>/<sub>2</sub>. Asst. Professor RAYMER. — Fire Assaying. Chiefly laboratory work.  
1 uC. Total 1.

*For Undergraduates and Graduates: —*

4. Professor BAXTER, assisted by Mr. C. H. WILSON. — Quantitative Analysis, gravimetric and volumetric. Chiefly laboratory work.  
2 Gr., 5 Se., 20 Ju., 3 So., 2 uC., 1 Sp. Total 33.
- 9 <sup>1</sup>/<sub>2</sub>. Professor BAXTER, assisted by Mr. C. H. WILSON. — Advanced Quantitative Analysis. 3 Gr., 5 Se., 2 Ju. Total 10.
- 10 <sup>1</sup>/<sub>2</sub>. Professor BAXTER. — Gas Analysis. Chiefly laboratory work.  
4 Gr., 6 Se., 1 Ju. Total 11.
5. Professor KOHLER and Professor F. J. MOORE (Massachusetts Institute of Technology), assisted by Mr. GILMAN. — The Carbon Compounds.  
3 Gr., 8 Se., 21 Ju., 1 So. Total 33.
- 15 <sup>1</sup>/<sub>2</sub>. Asst. Professor HENDERSON, assisted by Mr. COHN. — General Biological Chemistry. 2 Gr., 7 Se., 5 Ju., 1 So., 1 Fr., 1 ocC., 1 Sp. Total 18.
- 25 <sup>1</sup>/<sub>2</sub>. Asst. Professor HENDERSON, assisted by Mr. COHN. — Experimental Biological Chemistry. Chiefly laboratory work.  
1 Gr., 2 Se., 1 Ju. Total 4.

11. Professor TALBOT. — Chemistry 11 was given at the Massachusetts Institute of Technology. — Industrial Chemistry.  
6 Se., 2 Ju., 1 ocC. Total 9.

*Primarily for Graduates: —*

16. Professor RICHARDS and Asst. Professor G. S. FORBES. — Physical Chemistry.  
4 Gr., 12 Se., 1 Ju., 1 ocC., 8 R. Total 26.
- 7 <sup>1</sup>/<sub>2</sub>f. Asst. Professor G. S. FORBES. — Electrochemistry.  
2 Gr., 2 Se., 1 Ju., 1 ocC. Total 6.
- 17 <sup>1</sup>/<sub>2</sub>f. Dr. G. A. HILL. — Structural Organic Chemistry (advanced course).  
1 Gr., 7 Se., 2 Ju., 1 ocC. Total 11.

*Courses of Research*

- 20a. Professor RICHARDS. — Inorganic Chemistry, including Determination of Atomic Weights.  
1 Gr. Total 1.
- 20c. Professor KOHLER and Dr. G. A. HILL. — Organic Chemistry.  
2 Gr., 3 Se. Total 5.
- 20d. Professor RICHARDS. — Physical Chemistry, including Electrochemistry.  
2 Gr. Total 2.
- 20e. Professor LAMB. — Physical Chemistry, including Electrochemistry.  
1 Gr. Total 1.
- 20f. Professor BAXTER. — Inorganic Chemistry, including Determination of Atomic Weights.  
2 Gr. Total 2.
- 20k. Asst. Professor HENDERSON. — Biological Chemistry. 1 Gr. Total 1.

BOTANY

*Primarily for Undergraduates: —*

- 1 <sup>1</sup>/<sub>2</sub>f. Professor OSTERHOUT, and Messrs. GUSTAFSON, BRAY, KINSEY, and BAUMBERGER. — Botany.  
2 Gr., 8 Se., 14 Ju., 20 So., 28 Fr., 1 uC., 2 Sp. Total 75.
- 2 <sup>1</sup>/<sub>2</sub>f. Professor THAXTER, assisted by Mr. MEIER. — Introduction to Cryptogamic Botany.  
1 Gr., 2 Ju. Total 3.

*For Undergraduates and Graduates: —*

- 3 <sup>1</sup>/<sub>2</sub>f. Professor JEFFREY, assisted by Mr. POOLE. — Morphology in Relation to Evolution, Plant Production, Reproduction and Genetics.  
1 Se., 2 So., 1 uC. Total 4.
- 5a <sup>1</sup>/<sub>2</sub>f. Professor JEFFREY, assisted by Mr. POOLE. — Special Morphology of the Lower Vascular Plants. The Lycopods, Equisetales, Ferns, Fossil and Lower Gymnosperms.  
1 Gr., 1 Se., 1 Ju., 1 uC. Total 4.
7. Professor FERNALD. — Classification and Distribution of Flowering Plants, with special reference to the Flora of New England and the Maritime Provinces.  
5 Gr., 1 Ju. Total 6.
- 8 <sup>1</sup>/<sub>2</sub>f. Professor OSTERHOUT. — Plant Physiology. Nutrition.  
2 Gr., 1 G.B., 1 Se., 2 So. Total 6.

*Courses of Research*

- 20a. Professor JEFFREY. — Static and Experimental Morphology. 3 Gr. Total 3.
- 20b. Professors FARLOW and THAXTER. — Structure and Development of Cryptogams. 3 Gr., 1 Ju. Total 4.
- 20d. Professor FERNALD. — Geographic Botany. 1 Gr., 1 B.I. Total 2.
- 20e. Professor OSTERHOUT. — Plant Physiology. 2 Gr. Total 2.
- 20f. Professor EAST. — Principles of Variation and Heredity, and their Application to Plant Breeding. 1 B.I. Total 1.

## ZOOLOGY

## GENERAL ZOOLOGY

*Primarily for Undergraduates: —*

- 1 <sup>1</sup>/<sub>2</sub> Professor PARKER and Mr. KINSEY. — Zoölogy. 3 Gr., 18 Se., 20 Ju., 28 So., 41 Fr., 1 uC., 1 S.T.M. Total 112.
- 3 <sup>1</sup>/<sub>2</sub> Asst. Professor H. W. RAND, assisted by Messrs. OLMSTED and DOBSON. — Comparative Anatomy of Vertebrates. 9 Gr., 5 Se., 9 Ju., 14 So., 7 Fr., 3 uC., 2 Sp., 1 B.I. Total 50.

*For Undergraduates and Graduates: —*

- 4 <sup>1</sup>/<sub>2</sub> Asst. Professor H. W. RAND, assisted by Mr. DAWSON. — General Histology. 1 Gr., 1 Se., 4 Ju., 1 So., 1 Fr., 1 uC., 1 B.I. Total 10.
- 5b <sup>1</sup>/<sub>2</sub> Professor MARK and Mr. BRAY. — Embryology of Vertebrates. Organogeny. 3 Gr., 1 Se., 1 Ju., 1 So., 1 Fr., 1 uC. Total 8.
- 8 <sup>1</sup>/<sub>2</sub> Professor CASTLE. — Genetics and Eugenics. The reproduction of animals; the origin of new races; the influence of heredity and environment; applications to animal breeding and human society. 6 Gr., 7 Se., 7 Ju., 7 So., 3 uC., 1 ocC. Total 31.
- 12 <sup>1</sup>/<sub>2</sub> Professor MARK and Mr. BRAY. — Cytology, with special reference to Heredity. 7 Gr. Total 7.

*Primarily for Graduates: —*

- 114a <sup>1</sup>/<sub>2</sub> Professor PARKER. — The Structure and Functions of Sense Organs. 8 Gr., 5 Se., 1 Fr., 1 B.I., 3 R. Total 18.
- 117 <sup>1</sup>/<sub>2</sub> Asst. Professor H. W. RAND. — Experimental Morphology. The form-determining factors in development and growth. 5 Gr., 1 Se., 1 B.I., 2 R. Total 9.

*Courses of Research*

- 20a. Professor MARK. — Embryology. 3 Gr. Total 3.
- 20b. Professor MARK. — Cytology, with special reference to Heredity. 1 Gr. Total 1.
- 20c. Professor PARKER. — The Structural and Functional Basis of Animal Reactions. 2 Gr., 1 B.I. Total 3.
- 20e. Asst. Professor H. W. RAND. — Comparative Anatomy of Vertebrates. 4 Gr. Total 4.
- 20g <sup>1</sup>/<sub>2</sub> Asst. Professor H. W. RAND. — Experimental Morphology. 1 Gr., 1 Se. Total 2.

## APPLIED ZOOLOGY

*Primarily for Graduates: —*

7a <sup>1</sup>/<sub>2</sub>f. Professor WHEELER and Asst. Professor BRUES. — Morphology and Classification of Insects. 1 Gr., 1 Ju., 2 So. Total 4.

7c <sup>1</sup>/<sub>2</sub>f. Asst. Professor BRUES. — Practical Entomology. 1 Gr., 1 So. Total 2.

*Course of Research*

20f. Professor WHEELER and Asst. Professor BRUES. — Economic Entomology. 2 B.I. Total 2.

PALAEONTOLOGY (see Geology, page 49)

## HYGIENE AND SANITATION

*For Undergraduates and Graduates: —*

2 <sup>1</sup>/<sub>2</sub>f. Mr. M. C. WHIPPLE. — Elementary Bacteriology. 1 Se., 1 So., 1 ocC. Total 3.

## GEOLOGY AND GEOGRAPHY

## GENERAL GEOLOGY

*Primarily for Undergraduates: —*

4 <sup>1</sup>/<sub>2</sub>f. Professor DALY, assisted by Messrs. HINDS and WHITEHEAD. — Introduction to Geology. 1 Gr., 5 Se., 14 Ju., 30 So., 27 Fr., 2 uC. Total 79.

5 <sup>1</sup>/<sub>2</sub>f. Associate Professors WOODWORTH and RAYMOND. — Historical Geology. 2 Se., 3 Ju., 12 So., 9 Fr., 1 uC. Total 27.

*For Undergraduates and Graduates: —*

16 <sup>1</sup>/<sub>2</sub>f. Associate Professor WOODWORTH. — Geology of North America. 2 Se., 1 Ju., 1 So. Total 4.

8 <sup>1</sup>/<sub>2</sub>f. Associate Professor WOODWORTH. — Principles of Geology, including History of Geological Science. 1 Se., 1 Ju., 1 So. Total 3.

12. Associate Professor WOODWORTH. — Geological Surveying. 1 ocC. Total 1.

## ECONOMIC GEOLOGY

*For Undergraduates and Graduates: —*

10. Professors GRATON and H. L. SMYTH, assisted by Mr. D. A. HALL; with lectures on gold and silver by Professor WALDEMAR LINDGREN (Massachusetts Institute of Technology). — Ore-Deposits. Origin and Occurrence. 1 Se., 2 Ju., 1 uC. Total 4.

18a <sup>1</sup>/<sub>2</sub>f. Professors WOLFF and PALACHE. — Non-Metallic Mineral Deposits. 1 Se., 1 uC. Total 2.

17 <sup>1</sup>/<sub>2</sub>f. Professor H. L. SMYTH. — Geology of Iron Ores. 2 Se., 1 uC. Total 3.

*Primarily for Graduates:—*

- 20b. Professors H. L. SMYTH and GRATON. — Economic Geology (research course). 1 Gr. Total 1.

## PALAEOLOGY

*For Undergraduates and Graduates:—*

- 1 <sup>1</sup>/<sub>2</sub>f. Associate Professor RAYMOND. — Palaeontology (introductory course). 1 Gr., 2 Fr., 1 uC. Total 4.

## GEOGRAPHY

*Primarily for Undergraduates:—*

- 1 <sup>1</sup>/<sub>2</sub>f. Professor ATWOOD, assisted by Mr. HINDS. — Physiography (introductory course). 9 Se., 15 Ju., 23 So., 31 Fr., 2 uC., 1 ocC. Total 81.

*For Undergraduates and Graduates:—*

- 6 <sup>1</sup>/<sub>2</sub>f. Professor ATWOOD. — Geography of North America. 2 Se., 1 Ju., 7 So., 6 Fr. Total 16.

## METEOROLOGY AND CLIMATOLOGY

*Primarily for Undergraduates:—*

- 1 <sup>1</sup>/<sub>2</sub>f. Professor WARD. — Elementary Meteorology. The Weather and Weather Forecasting. 11 Se., 15 Ju., 39 So., 41 Fr., 3 uC., 2 ocC., 1 Sp. Total 112.

*For Undergraduates and Graduates:—*

- 3 <sup>1</sup>/<sub>2</sub>f. Professor WARD. — Climatology of North America. 1 Se., 2 Ju. Total 3.  
6 <sup>1</sup>/<sub>2</sub>f. Professor McADIE. — Instrumental Meteorology. 1 Se., 3 Ju. Total 4.

*Primarily for Graduates:—*

20. Professor WARD. — Climatology (research course). 1 Gr. Total 1.  
20a. Professor McADIE. — Meteorology (research course). 1 Gr. Total 1.

## MINERALOGY AND PETROGRAPHY

*Primarily for Undergraduates:—*

2. Professor PALACHE. — Mineralogy (including Crystallography, Physical and Chemical Mineralogy, and Descriptive Mineralogy). 2 Ju., 2 So., 1 Fr., 1 uC. Total 6.

## GROUP III

## HISTORY

## INTRODUCTORY

*Primarily for Undergraduates:—*

1. Professor HASKINS, assisted by Messrs. ARRAGON, GOODYKOONTZ, PACKARD, and TROTTER; with lectures by Professors G. F. MOORE, EMERTON, COOLIDGE, and GAY, Asst. Professors JOHNSTON and MERRIMAN. — European History from the Fall of the Roman Empire to the Present Time. 54 So., 226 Fr., 11 uC. Total 291.

## I. ANCIENT HISTORY

*For Undergraduates and Graduates: —*

3a <sup>1</sup>/<sub>hf</sub>. Professor FERGUSON. — History of the Roman Republic.  
3 Gr., 2 Se., 4 Ju., 3 So., 1 Di. Total 13.

3b <sup>2</sup>/<sub>hf</sub>. Professor FERGUSON. — History of the Roman Empire.  
2 Gr., 3 Se., 7 Ju., 2 So., 1 Fr. Total 15.

*Primarily for Graduates: —*

36. Professor FERGUSON. — Greek Political Institutions. 1 Gr. Total 1.

## II. MEDIAEVAL HISTORY

*For Undergraduates and Graduates: —*

9. Professor McILWAIN. — Constitutional History of England to the Sixteenth Century. 3 Gr., 1 Se. Total 4.

*Primarily for Graduates: —*

25 <sup>1</sup>/<sub>hf</sub>. Professor HASKINS. — Historical Bibliography and Criticism.  
8 Gr., 1 B.U. Total 9.

6. Professor EMERTON. — The First Eight Christian Centuries. The conflict of Christianity with Paganism. Origin and development of the Roman Papacy to its alliance with the Frankish State. The Germanic Races as the basis of a new Christian civilization.  
3 Gr., 1 uC., 4 Di., 2 And. Total 10.

121 <sup>1</sup>/<sub>hf</sub>. Professor HASKINS. — Introduction to the Sources of Mediaeval History. 2 Gr., 1 R. Total 3.

22 <sup>2</sup>/<sub>hf</sub>. Professor HASKINS. — The Elements of Latin Palaeography, with reference to the use of historical sources. 1 Gr., 1 R. Total 2.

*Courses of Research*

20a. Professor EMERTON. — Readings in Early Reformation Literature. 1 Di. Total 1.

20c. Professor HASKINS. — Mediaeval Institutions. 2 Gr. Total 2.

## III. MODERN HISTORY

*Primarily for Undergraduates: —*

2a <sup>1</sup>/<sub>hf</sub>. Mr. SCHENCK. — European History from the Close of the Middle Ages to the End of the Thirty Years' War.  
2 Se., 3 Ju., 9 So., 1 uC., 1 ocC. Total 16.

2b <sup>2</sup>/<sub>hf</sub>. Mr. LASKI. — European History from the Middle of the Seventeenth Century to the Outbreak of the French Revolution.  
6 Se., 10 Ju., 11 So., 2 uC., 1 And. Total 30.

30a <sup>1</sup>/<sub>hf</sub>. Asst. Professor LORD, assisted by Mr. STEEFEL. — Continental Europe since 1815. 24 Se., 22 Ju., 17 So., 2 uC., 1 ocC., 1 Sp. Total 67.

30b <sup>2</sup>/<sub>hf</sub>. Professor FAY (Smith College). — The Expansion of Europe since 1815. 9 Se., 9 Ju., 10 So., 1 uC. Total 29.

*For Undergraduates and Graduates: —*

7. Professor EMERTON. — The Era of the Reformation in Europe from the Rise of Italian Humanism to the close of the Council of Trent (1350–1563). 6 Gr., 2 So., 1 Di. Total 9.
- 12a <sup>1</sup>/<sub>2</sub> Asst. Professor JOHNSTON. — The History of England from 1688 to 1783. 2 Gr., 4 Se., 5 Ju., 5 So., 1 Sp., 1 B.U. Total 18.
- 12b <sup>1</sup>/<sub>2</sub> Mr. LASKI. — The History of England from 1783 to the Present Time. 5 Gr., 4 Se., 11 Ju., 5 So. Total 25.
55. Asst. Professor JOHNSTON. — Introduction to Military History and Theory. 1 Se., 6 Ju., 4 So. Total 11.
14. Asst. Professor JOHNSTON. — The French Revolution and Napoleon I. 3 Gr., 4 Se., 7 Ju., 2 So., 2 ocC., 3 B.U. Total 21.
28. Asst. Professor LORD and Professor FAY (Smith College). — History of Modern Germany. 4 Gr., 3 Se., 6 Ju., 2 So. Total 15.

*Primarily for Graduates: —*

- 24b <sup>1</sup>/<sub>2</sub> Professor EDWARD C. MOORE. — The Expansion of Christendom and the Naturalization of Christianity in the Orient, more particularly during the Nineteenth Century. 2 And. Total 2.
27. Asst. Professor LORD. — Topics in Modern European History; Bismarck's Foreign Policy, 1862–71. 4 Gr. Total 4.

## IV. AMERICAN HISTORY

*Primarily for Undergraduates: —*

- 32a <sup>1</sup>/<sub>2</sub> Dr. MORISON, assisted by Mr. ROTH. — American History: The Formation of the Union, 1760–1829. 2 Gr., 23 Se., 52 Ju., 38 So., 1 Fr., 5 uC. Total 121.
- 32b <sup>1</sup>/<sub>2</sub> Professor CHANNING and Mr. MAYO. — American History: The Development of the Nation, 1830 to the Present Time. 7 Gr., 22 Se., 52 Ju., 47 So., 3 Fr., 6 uC., 1 And. Total 138.

*For Undergraduates and Graduates: —*

- 33 <sup>1</sup>/<sub>2</sub> Dr. MORISON. — The History of Massachusetts from 1780 to the Present Time. 1 Gr., 1 Se., 1 Ju. Total 3.
- 17a <sup>1</sup>/<sub>2</sub> Professor TURNER. — The History of the West to 1840. 6 Gr., 11 Se., 4 Ju., 1 uC. Total 22.
- 17b <sup>1</sup>/<sub>2</sub> Professor TURNER. — The History of the West, 1840–1917. 5 Gr., 6 Se., 3 Ju., 1 So., 1 uC. Total 16.
- 43 <sup>1</sup>/<sub>2</sub> Professor HART. — The American Civil War. 1 Gr., 4 Se., 3 Ju., 3 So. Total 11.
- 56 <sup>1</sup>/<sub>2</sub> Asst. Professor MERRIMAN. — The History of Latin America. 1 Se., 7 Ju., 5 So., 1 Fr. Total 14.

*Primarily for Graduates: —*

- 23b <sup>1</sup>/<sub>2</sub> Professor CHANNING. — Selected Topics in the Historical Development of American Institutions: Political and Social History since 1865. 5 Gr., 1 And. Total 6.
44. Professor TURNER. — Selected Topics in American History, 1840–1855. 4 Gr. Total 4.

146 hf. Mr. W. C. FORD. — Manuscript Materials of American History.

4 Gr., 2 R. Total 6.

*Courses of Research*

20e. Dr. MORISON. — American History. 1 Gr. Total 1.

20k. Professor TURNER. — American History. 3 Gr. Total 3.

V. ECONOMIC HISTORY

Economics 2a 1hf., 2b 1hf., 24 1hf., 20. (See Economics, pp. 53-55.)

VI. CHURCH HISTORY

*History 6, 24b, and 20a are courses in Church History. In addition to these, the following course in Andover Theological Seminary (offered Primarily to Graduates) was open to students in Harvard University: —*

A2. Professor PLATNER. — History of Christian Doctrine.

1 And., 1 Di. Total 2.

VII. HISTORY OF RELIGIONS

*Primarily for Graduates: —*

1. Professor G. F. MOORE. — The Origin and Development of Religion.  
3 Gr., 1 Ju., 2 So., 5 And., 8 Di., 1 B.U. Total 20.

3 1hf. Professors KITTEDGE and F. N. ROBINSON. — Germanic and Celtic Religions. 3 Gr., 1 Ju. Total 4.

4 1hf. Professor G. F. MOORE. — Judaism at the Beginning of the Christian Era. 1 Gr., 1 Ju., 3 Di., 1 And. Total 6.

7 1hf. Professor LAKE. — The Religion of the Roman Empire at the Beginning of the Christian Era. 2 Ju., 1 uC., 2 Di., 10 And., 4 E.T.S. Total 19.

*Course of Research*

20. Professor G. F. MOORE directed the researches of competent students.  
1 Gr., 1 Ju., 2 Di. Total 4.

GOVERNMENT

I. MODERN GOVERNMENT

*Primarily for Undergraduates: —*

1. President LOWELL, Professor MUNRO, Professor YEOMANS, assisted by Messrs. BELL, COGGESHALL, LAPORTE, and MCNAIR. — Constitutional Government. 1 Se., 5 Ju., 70 So., 181 Fr., 11 uC., 1 Sp. Total 269.

*For Undergraduates and Graduates: —*

17. Professor MUNRO and Professor WHIPPLE. — Municipal Government.  
3 Gr., 8 Se., 19 Ju., 21 So., 1 Fr., 1 uC., 1 Sp. Total 54.

8 1hf. Professor YEOMANS. — Government of the French Republic and of the German Empire. 2 Gr., 2 Se. Total 4.

25 1hf. Professor DUPRIE (University of Louvain). — Government and Administration of Switzerland. 2 Gr. Total 2.

31. Professor WHIPPLE and Mr. HANFORD. — Municipal Administration.  
2 Se., 1 So. Total 3.

*Primarily for Graduates:—*

- 26 <sup>1</sup>/<sub>2</sub>f. Professor DUPRIE (University of Louvain). — Centralized Administration. 4 Gr. Total 4.

*Courses of Research*

- 20a <sup>1</sup>/<sub>2</sub>f. Professor MUNRO. — Selected Topics in Municipal Government. 1 Gr. Total 1.
- 20c. Professor A. B. HART. — American Institutions, — National, State, Municipal, and Diplomatic. 3 Gr., 1 ocC. Total 4.

## II. LAW AND POLITICAL THEORY

*For Undergraduates and Graduates:—*

13. Professor A. B. HART and Mr. HANFORD. — Constitutional Development of the United States (1775-1918). 3 Gr., 5 Se., 9 Ju., 2 So., 1 uC. Total 20.
- 6a <sup>1</sup>/<sub>2</sub>f. Mr. LASKI. — History of Political Theories. 10 Gr., 16 Se., 8 Ju., 3 So., 2 ocC. Total 39.
- 5a <sup>1</sup>/<sub>2</sub>f. Professor McILWAIN. — The Development of Roman Law. 5 Gr., 7 Se., 1 Ju., 1 So., 1 uC. Total 15.
- 5b <sup>1</sup>/<sub>2</sub>f. Professor McILWAIN. — The Development of English Law. 5 Gr., 9 Se., 2 Ju., 4 So. Total 20.

## III. INTERNATIONAL LAW AND DIPLOMACY

*For Undergraduates and Graduates:—*

4. Professor G. G. WILSON, assisted by Dr. P. Q. WRIGHT. — Elements of International Law. 8 Gr., 12 Se., 12 Ju., 1 So., 1 uC. Total 34.
14. Professor A. B. HART. — American Diplomacy, Treaties, and Foreign Policy. 8 Gr., 1 Se., 5 Ju. Total 14.

*Primarily for Graduates:—*

23. Professor G. G. WILSON. — Selected Cases in International Law. 6 Gr., 2 Se., 1 Ju., 1 L. Total 10.

*Course of Research*

- 20c. Professor G. G. WILSON. — International Law. 2 Gr. Total 2.

## ECONOMICS

*Primarily for Undergraduates:—*

- A. Asst. Professor DAY and Asst. Professor J. S. DAVIS, Dr. BURBANK, Mr. MONROE, and Dr. E. E. LINCOLN. — Principles of Economics. 1 Gr., 8 Se., 73 Ju., 150 So., 3 Fr., 6 Sp., 16 uC., 1 ocC. Total 258.

*For Undergraduates and Graduates:—*

- 1a <sup>1</sup>/<sub>2</sub>f. Asst. Professor J. S. DAVIS, assisted by Mr. PALMER. — Accounting. 19 Se., 28 Ju., 7 So., 1 uC., 1 ocC., 1 Sp. Total 57.
- 1b <sup>1</sup>/<sub>2</sub>f. Asst. Professor DAY. — Statistics. 2 Gr., 11 Se., 17 Ju., 10 So., 2 uC., 1 ocC. Total 43.
- 2a <sup>1</sup>/<sub>2</sub>f. Professor GAY, assisted by Mr. H. B. HALL. — European Industry and Commerce in the Nineteenth Century. 13 Gr., 10 Se., 11 Ju., 3 So., 2 uC., 1 ocC. Total 40.

- 2b <sup>1</sup>/<sub>2</sub>f. Asst. Professor GRAS (Clark College), assisted by Mr. H. B. HALL. — Economic History of the United States.  
9 Gr., 11 Se., 26 Ju., 6 So., 4 uC., 1 ocC. Total 57.
3. Asst. Professor ANDERSON, assisted by Mr. LAPOORTE. — Money, Banking, and Commercial Crises.  
13 Se., 15 Ju., 4 So., 4 uC., 2 ocC. Total 38.
- 4a <sup>1</sup>/<sub>2</sub>f. Professor RIPLEY, assisted by Mr. AITON. — Economics of Transportation.  
1 G.B., 28 Se., 25 Ju., 1 So., 3 uC., 2 ocC. Total 60.
- 4b <sup>1</sup>/<sub>2</sub>f. Professor RIPLEY, assisted by Mr. AITON. — Economics of Corporations.  
2 Gr., 22 Se., 30 Ju., 2 So., 3 uC., 2 ocC., 2 Sp. Total 63.
- 5a <sup>1</sup>/<sub>2</sub>f. Professor BULLOCK. — Public Finance, exclusive of Taxation.  
2 Gr., 10 Se., 3 Ju., 1 ocC. Total 16.
- 5b <sup>1</sup>/<sub>2</sub>f. Dr. BURBANK. — The Theory and Methods of Taxation.  
4 Gr., 20 e.S., 9 Ju. Total 33.
- 6a <sup>1</sup>/<sub>2</sub>f. Professor RIPLEY. — Trade-Unionism and Allied Problems.  
1 Gr., 10 Se., 8 Ju. Total 19.
- 7b <sup>1</sup>/<sub>2</sub>f. Asst. Professor ANDERSON. — The Single Tax, Socialism, Anarchism.  
5 Se., 12 Ju., 1 So., 2 ocC., 1 Sp. Total 21.
8. Professor CARVER. — Principles of Sociology.  
7 Se., 8 Ju., 1 uC., 1 ocC. Total 17.
- 9 <sup>1</sup>/<sub>2</sub>f. Professor CARVER. — Economics of Agriculture.  
5 Se., 5 Ju., 1 uC., 2 ocC. Total 13.

*Primarily for Graduates: —*

## I

### ECONOMIC THEORY AND METHOD

- †11. Professors CARVER and BULLOCK. — Economic Theory.  
8 Gr., 2 G.B., 1 R. Total 11.
- †13. Asst. Professor DAY. — Statistics: Theory, Method, and Practice.  
5 Gr. Total 5.
- 18a <sup>1</sup>/<sub>2</sub>f. Asst. Professor ANDERSON. — Analytical Sociology.  
2 Gr., 1 Se., 1 Ju. Total 4.
- 18b <sup>1</sup>/<sub>2</sub>f. Asst. Professor ANDERSON. — Historical Sociology. 3 Ju. Total 3.

## II

### ECONOMIC HISTORY

- †24 <sup>1</sup>/<sub>2</sub>f. Professor GAY. — Topics in the Economic History of the Nineteenth Century.  
1 Gr., 1 ocC., 2 R. Total 4.

## III

### APPLIED ECONOMICS

- †31. Professor BULLOCK. — Public Finance. 7 Gr. Total 7.
- †32 <sup>1</sup>/<sub>2</sub>f. Professor CARVER. — Economics of Agriculture.  
1 Gr., 1 G.B., 1 Ju., 1 ocC., 4 R. Total 8.
- †34. Professor RIPLEY. — Problems of Labor.  
1 Gr., 1 ocC., 1 B.U., 2 R. Total 5.

## IV

## SOCIAL SCIENCES

Anthropology 13 <sup>1</sup>/<sub>2</sub>f. (See Anthropology, p. 56.)

Social Ethics 2 <sup>1</sup>/<sub>2</sub>f., 4 <sup>1</sup>/<sub>2</sub>f., 5 <sup>1</sup>/<sub>2</sub>f., 6 <sup>1</sup>/<sub>2</sub>f., 7 <sup>1</sup>/<sub>2</sub>f., 15 <sup>1</sup>/<sub>2</sub>f., 20b. (See Social Ethics, pp. 59-60.) Courses in Social Ethics belong to Group IV.

## V

## COURSE OF RESEARCH IN ECONOMICS

20. Professors CARVER, RIPLEY, GAY, BULLOCK, DAY, ANDERSON, SPRAGUE, and COLE. — Economic Research. 10 Gr., 1 Se. Total 11.

*The Seminary in Economics*

Meetings were held by instructors and advanced students for the presentation of the results of investigation.

## EDUCATION

*For Undergraduates and Graduates: —*

A <sup>1</sup>/<sub>2</sub>f. Professor HOLMES. — Principles and Problems of Modern Education. Contemporary Educational Conditions (introductory course).

1 Gr., 8 Se., 12 Ju., 6 So., 1 ocC., 2 Sp. Total 30.

B <sup>1</sup>/<sub>2</sub>f. Professor HANUS. — School Administration in State and City — Contemporary Tendencies and Problems.

2 Gr., 3 Se., 5 Ju., 2 So., 1 ocC., 1 Sp., 1 N.T.I. Total 15.

1. Professor A. O. NORTON (Wellesley College). — The History of Education. 1 Ju., 1 Sp. Total 2.

7 <sup>1</sup>/<sub>2</sub>f. Professor DEARBORN. — Educational Psychology.

5 Gr., 3 Se., 9 Ju., 2 So., 1 Fr., 1 uC., 1 ocC., 3 Sp. Total 25.

*Primarily for Graduates: —*

3b. Asst. Professor INGLIS. — Principles of Secondary Education. Visits to schools. 4 Gr., 7 Se., 1 Ju., 1 ocC. Total 13.

3c. Professor HOLMES. — Elementary Education. Programmes of study, methods, school and class management. Visits to schools.

1 Gr., 1 Se., 1 Ju., 2 R. Total 5.

9 <sup>1</sup>/<sub>2</sub>f. Asst. Professor INGLIS. — Teaching. Teaching under supervision in the schools of Newton, Brookline, Arlington, Medford, Somerville, Belmont, Watertown, and Cambridge. 1 Gr., 8 Se., 1 Ju. Total 10.

15 <sup>1</sup>/<sub>2</sub>f. Asst. Professor INGLIS. — The Reorganization of Secondary Education. Problems of theory and practice involved in the reorganization of secondary schools. The Junior High School and other plans for the readjustment of secondary education. 5 Gr., 2 Sp., 4 R. Total 11.

12a <sup>1</sup>/<sub>2</sub>f. Asst. Professor G. E. JOHNSON and Mr. JOSEPH LEE. — Play in Education. General course for Teachers, Principals, Superintendents of Schools, Social Workers, and others.

1 Gr., 1 Se., 1 Ju., 1 ocC., 2 R. Total 6.

- ‡16a. Mr. R. W. KELLY, assisted by Mr. F. J. ALLEN. — Vocational Guidance: Principles, Practice, and Problems. 1 Gr., 1 Sp., 4 R. Total 6.

*Seminary Courses*

- ‡20. Special Research in Education. — Under the direction of an instructor of the Division. 7 Gr., 2 R. Total 9.
- ‡20a. Professor HANUS. — Problems in Educational Administration. 8 Gr., 1 R. Total 9.
- 20b. Professor HOLMES. — Problems of the Elementary School. Constructive studies in teaching and administration in the elementary school. 6 Gr., 3 Sp. Total 9.
- ‡20c <sup>1</sup>/<sub>2</sub>. Professor DEARBORN. — Problems in Mental and Physical Development. — Studies in Child Development; with Special Reference to Cases of Deficient, Retarded, and Psychopathic Children in School. 6 Gr., 3 R. Total 9.
- ‡20d <sup>1</sup>/<sub>2</sub>. Professor DEARBORN. — Research in Educational Psychology. 2 Gr. Total 2.
- ‡20f. Asst. Professor INGLIS. — Problems in Secondary Education. 8 Gr., 1 Sp., 2 R. Total 11.
- ‡20h <sup>1</sup>/<sub>2</sub>. Asst. Professor G. E. JOHNSON and Mr. JOSEPH LEE. — Play and Recreation. 1 Gr., 1 Sp., 1 N.T.I., 1 R. Total 4.

ANTHROPOLOGY

*Primarily for Undergraduates: —*

1. Dr. HOOTON. — General Anthropology. 4 Se., 4 Ju., 11 So., 1 Fr., 2 uC., 1 ocC., 1 Sp. Total 24.

*For Undergraduates and Graduates: —*

5. Professor DIXON. — American Archaeology and Ethnography. 1 Ju., 1 Sp. Total 2.
2. Dr. HOOTON. — Physical Anthropology. 1 So., 1 Sp. Total 2.
- 7 <sup>1</sup>/<sub>2</sub>. Professor DIXON. — Ethnography of Oceania. 1 Gr., 2 Se. Total 3.
- 11 <sup>1</sup>/<sub>2</sub>. Professor DIXON. — Ethnography of Asia. 1 Gr., 2 Se., 1 Ju. Total 4.
- 13 <sup>1</sup>/<sub>2</sub>. Professor DIXON. — Primitive Industries and Arts. 1 Gr., 1 Se. Total 2.

*Primarily for Graduates: —*

*Courses of Research*

- ‡20a. Professor DIXON. — American Archaeology and Ethnology. 1 Sp. Total 1.
- 20b. Dr. HOOTON. — Advanced Physical Anthropology. 1 ocC. Total 1.
- 20d. Professor DIXON. — General Ethnology. 1 Gr. Total 1.
- 20f. Dr. HOOTON. — African Ethnology and Archaeology. 1 Gr. Total 1.

## GROUP IV

## PHILOSOPHY AND PSYCHOLOGY

## PHILOSOPHY

*Primarily for Undergraduates: —*

- A <sup>1</sup>/<sub>4</sub>f. Professor R. B. PERRY. — History of Ancient Philosophy.  
1 Se., 28 Ju., 72 So., 99 Fr., 2 Sp., 18 uC. Total 220.
- B <sup>1</sup>/<sub>4</sub>f. Professor ADDISON W. MOORE (University of Chicago). — History of Modern Philosophy.  
3 Se., 34 Ju., 50 So., 79 Fr., 2 Sp., 14 uC. Total 182.
- C <sup>1</sup>/<sub>4</sub>f. Dr. SHEFFER. — Elementary Logic.  
8 Ju., 14 So., 32 Fr., 2 uC. Total 56.
- 1 <sup>1</sup>/<sub>4</sub>f. Asst. Professor HOERNLÉ. — General Problems of Philosophy.  
7 Se., 22 Ju., 15 So., 1 Fr., 3 uC., 1 ocC., 1 E.T.S. Total 50.

*For Undergraduates and Graduates: —*

- 3 <sup>1</sup>/<sub>4</sub>f. Asst. Professor HOLT. — Philosophy of Nature. Outline of a unified conception of the world we live in.  
3 Gr., 9 Se., 9 Ju., 3 So., 1 ocC. Total 25.
- 4 <sup>1</sup>/<sub>4</sub>f. Professor HOCKING. — Ethics — General Course.  
4 Gr., 20 Se., 23 Ju., 21 So., 2 Fr., 2 uC., 2 ocC., 2 And. Total 76.
- 5 <sup>1</sup>/<sub>4</sub>f. Professor HOCKING. — Philosophy of the State.  
3 Gr., 13 Se., 16 Ju., 1 So., 2 ocC., 1 Sp., 3 Di., 1 And., 1 N.T.I. Total 41.
- 6a <sup>1</sup>/<sub>4</sub>f. Professor EDWARD C. MOORE. — Philosophy of Religion. The nature and evolution of the religious consciousness.  
1 Gr., 4 Se., 2 Ju., 1 So., 1 uC., 1 Sp., 4 Di., 2 B.U. Total 16.
- 6b <sup>1</sup>/<sub>4</sub>f. Professor EDWARD C. MOORE. — Philosophy of Religion. The Truths of Religion.  
4 Gr., 4 Se., 3 Ju., 2 So., 1 uC., 4 Di., 2 B.U., 1 And. Total 21.
- 7 <sup>1</sup>/<sub>4</sub>f. Professor FENN. — Theism.  
1 Se., 1 Ju., 5 Di., 7 And., 1 N.T.I. Total 15.
- 8 <sup>1</sup>/<sub>4</sub>f. Dr. SHEFFER. — Advanced Logic. — The elements of mathematical logic, with some applications to problems of philosophy.  
4 Gr., 1 uC. Total 5.
9. Professor HOCKING. — Metaphysics. The fundamental problems of reality.  
5 Gr., 1 Se., 2 Ju., 2 Di., 2 And., 1 B.U. Total 13.
- 10 <sup>1</sup>/<sub>4</sub>f. Asst. Professor LANGFELD. — Aesthetics.  
4 Gr., 9 Se., 13 Ju., 4 So., 1 uC., 1 ocC., 1 Sp. Total 33.
- 13d <sup>1</sup>/<sub>4</sub>f. Dr. WOLFSON. — Introduction to Mediaeval Jewish Philosophy, with special reference to Moslem Philosophy and to Aristotelianism.  
1 Gr., 1 Se. Total 2.
- 13f. Dr. LA PIANA. — Philosophical and Theological Method of Thomas Aquinas.  
2 Di. Total 2.
- 14b <sup>1</sup>/<sub>4</sub>f. Dr. SHEFFER. — English Philosophy from Bacon to Hume.  
3 Ju., 1 uC. Total 4.
- 15 <sup>1</sup>/<sub>4</sub>f. Dr. MASON. — The Kantian Philosophy. 4 Gr., 1 Se., 4 Ju. Total 9.

- 17b <sup>1</sup>/<sub>4</sub>f. Professor EDWARD C. MOORE. — Modern Theology, especially as influenced by Ritschl: a survey of constructive work in theology during the last thirty years. 2 Gr., 5 Di., 1 And. Total 8.
- 18c <sup>1</sup>/<sub>4</sub>f. Professor ADDISON W. MOORE (University of Chicago). — The Pragmatic Movement in Philosophy. Logical, metaphysical, and social aspects of the Pragmatic Movement. 3 Gr., 6 Se., 12 Ju., 1 uC., 2 ocC. Total 24.
- 19 <sup>1</sup>/<sub>4</sub>f. Asst. Professor HOERNLÉ. — History of British Ethics. British Moralists from Hobbes to Sidgwick and T. H. Green. 1 Gr., 6 Se., 5 Ju., 1 So., 1 Di. Total 14.

*Primarily for Graduates: —*

- ‡22 <sup>1</sup>/<sub>4</sub>f. Asst. Professor HOERNLÉ. — Logical Theory. A Comparative Study of selected topics from Modern Logic and Theory of Knowledge, with special attention to Bradley and Bosanquet, and references to Russell, Husserl, and Meinong. 3 Gr. Total 3.
- ‡23a <sup>1</sup>/<sub>4</sub>f. Dr. SHEFFER. — Philosophic Method. 1 Gr. Total 1.
- Mathematics 27 <sup>1</sup>/<sub>4</sub>f. (See Mathematics, p. 61.)
- ‡25a <sup>1</sup>/<sub>4</sub>f. Professor R. B. PERRY. — Theory of Value. 4 Gr., 1 Se., 2 Ju., 1 ocC., 1 Di., 2 R. Total 11.
20. Special Research in Philosophy, under the direction of an instructor of the Department, and not provided for in a regular seminary. 3 Gr., 1 Ju. Total 4.
- ‡20a <sup>1</sup>/<sub>4</sub>f. Asst. Professor HOERNLÉ. — Seminary in Metaphysics. 5 Gr., 1 Se., 1 Di., 1 R. Total 8.
- ‡20b <sup>1</sup>/<sub>4</sub>f. Professor HOCKING. — Seminary in the History of Philosophy. — Post-Kantian Idealism, its origins and meaning. 4 Gr. Total 4.
- ‡20b <sup>1</sup>/<sub>4</sub>f. Professor ADDISON W. MOORE (University of Chicago). — Seminary in the History of Philosophy. — The Development of Modern Logical Theory. 3 Gr., 1 R. Total 4.
- ‡20c. Dr. SHEFFER. — Seminary in Logic. — Contemporary Problems. 4 Gr. Total 4.
- ‡20e <sup>1</sup>/<sub>4</sub>f. Professor R. B. PERRY. — Seminary in the Theory of Knowledge. — Selected topics from Epistemology, with special reference to Contemporary Tendencies. 2 Gr., 1 Di. Total 3.
- ‡20h <sup>1</sup>/<sub>4</sub>f. Professor EDWARD C. MOORE. — Seminary in the Philosophy of Religion. — Belief and Knowledge; Religion and Morals; Faith and Worship. 1 Gr., 1 Se., 4 Di., 2 And., 1 R. Total 9.
- ‡20k <sup>1</sup>/<sub>4</sub>f. Asst. Professor HOERNLÉ. — Seminary in Contemporary Philosophy. — Meinong's *Über Annahmen*. 3 Gr. Total 3.

THE CLASSICS

Greek and Latin 8. (See the Classics, pp. 33-34.)

PSYCHOLOGY

*Primarily for Undergraduates: —*

- A <sup>1</sup>/<sub>4</sub>f. Asst. Professor LANGFELD. — General Introduction to Psychology. 1 Se., 28 Ju., 58 So., 98 Fr., 1 Sp., 13 uC. Total 199.

2 <sup>1</sup>/<sub>2</sub>f. Asst. Professor HOLT. — Introduction to the Psychology of Human Behavior. 1 Gr., 14 Se., 20 Ju., 20 So., 5 uC., 1 ocC., 1 Sp. Total 62.

*For Undergraduates and Graduates: —*

5 <sup>1</sup>/<sub>2</sub>f. Dr. TROLAND. — Advanced Psychology.

4 Gr., 1 Se., 4 Ju., 8 So., 1 uC., 1 And. Total 19.

Education 7 <sup>1</sup>/<sub>2</sub>f. (See Education, p. 55.)

10 <sup>1</sup>/<sub>2</sub>f. Asst. Professor LANGFELD. — Experimental Human Psychology (introductory laboratory course). 3 Gr., 1 Se., 1 Ju., 3 So. Total 8.

10a. Asst. Professor LANGFELD. — Experimental Human Psychology (advanced laboratory course). 2 Ju., 1 So. Total 3.

12 <sup>1</sup>/<sub>2</sub>f. Dr. TROLAND. — The Fundamentals of Psychophysiology.

2 Gr., 1 Se. Total 3.

13 <sup>1</sup>/<sub>2</sub>f. Professor EVANS. — The Psychology of Religion. 2 Gr. Total 2.

16 <sup>1</sup>/<sub>2</sub>f. Asst. Professor HOLT. — Social Psychology.

6 Gr., 5 Se., 6 Ju., 1 So., 1 ocC. Total 19.

*Primarily for Graduates: —*

†23 <sup>1</sup>/<sub>2</sub>f. Professor SOUTHARD. — Psychopathology. 5 Gr., 1 Se., 3 R. Total 9.

24. Dr. TROLAND. — Research in Psychophysiological Optics.

1 Gr. Total 1.

20. Special Research in Psychology, under the direction of an instructor of the Department. 1 Gr. Total 1.

†20f <sup>1</sup>/<sub>2</sub>f. Asst. Professor LANGFELD. — Seminary in Psychology. — Experimental Methods. 6 Gr., 1 R. Total 7.

20g <sup>1</sup>/<sub>2</sub>f. Professor SOUTHARD. — Seminary in Psychopathology.

5 Gr., 4 R. Total 9.

20a. Asst. Professor LANGFELD. — Psychological Laboratory. Experimental investigations in human psychology, including problems of applied psychology. 8 Gr. Total 8.

Education 20c <sup>1</sup>/<sub>2</sub>f., 20d <sup>1</sup>/<sub>2</sub>f. (See Education, p. 56.)

### SOCIAL ETHICS

*For Undergraduates and Graduates: —*

1. Asst. Professor FOERSTER and Asst. Professor JAMES FORD, assisted by Mr. SNIDER. — Social Problems and Social Policy. Principles and Methods of Social Amelioration.

1 Gr., 3 Se., 12 Ju., 8 So., 3 uC., 1 ocC. Total 28.

2 <sup>1</sup>/<sub>2</sub>f. Asst. Professor JAMES FORD. — Poor-Relief.

5 Ju., 1 So., 1 ocC., 2 Di. Total 9.

4 <sup>1</sup>/<sub>2</sub>f. Asst. Professor FOERSTER. — American Population Problems. Immigration and the Negro. 2 Gr., 1 Se., 6 Ju., 1 ocC., 1 Di. Total 11.

5 <sup>1</sup>/<sub>2</sub>f. Asst. Professor JAMES FORD. — The Housing Problem.

4 Se., 1 Di. Total 5.

6 <sup>1</sup>/<sub>2</sub>f. Asst. Professor FOERSTER. — Unemployment and Related Problems of the Working Classes, with Special Consideration of Social Insurance.

4 Gr., 1 G.B., 3 Se., 7 Ju., 1 Di. Total 16.

7 <sup>1</sup>/<sub>2</sub>f. Asst. Professor JAMES FORD. — Rural Social Development.

2 Gr., 2 Se., 3 Ju. Total 7.

*Primarily for Graduates: —*

15 <sup>1</sup>/<sub>2</sub>f. Asst. Professor FOERSTER. — Recent Theories of Social Reform.

1 Gr., 1 Se., 1 Ju., 1 Di., 1 N.T.I. Total 5.

*Course of Research*

‡20b. Asst. Professor JAMES FORD. — Seminary. The Alcohol Problem.

1 Gr., 1 Se., 1 Di. Total 3.

## MATHEMATICS

*Primarily for Undergraduates: —*

A. Professor BÔCHER and Asst. Professor BIRKHOFF, Dr. GREEN, and Messrs. HOBBS and WALSH. — Trigonometry, Analytic Geometry, Introduction to the Calculus.

1 Gr., 5 Ju., 28 So., 98 Fr., 1 uC. Total 133.

C. Asst. Professor DUNHAM JACKSON, Dr. A. L. MILLER, and Mr. C. W. MILLER. — Analytic Geometry; Introduction to the Calculus.

1 Se., 2 Ju., 8 So., 60 Fr., 3 uC. Total 74.

D <sup>1</sup>/<sub>2</sub>f. Asst. Professor DUNHAM JACKSON. — Algebra.

1 Se., 6 Ju., 12 So., 26 Fr., 1 uC., 1 Sp. Total 47.

E <sup>1</sup>/<sub>2</sub>f. Dr. GREEN and Mr. KEFFER. — Solid Geometry.

2 Se., 4 Ju., 9 So., 15 Fr. Total 30.

K <sup>1</sup>/<sub>2</sub>f. Associate Professor BOUTON. — Logarithms; Plane and Spherical Trigonometry.

3 Se., 2 Ju., 6 So., 14 Fr. Total 25.

G <sup>1</sup>/<sub>2</sub>f. Associate Professor BOUTON. — Descriptive Geometry.

1 Se., 2 Ju., 2 So. Total 5.

2. Professor OSGOOD and Associate Professor HUNTINGTON. — Differential and Integral Calculus; Analytic Geometry.

2 Gr., 3 Se., 21 Ju., 40 So., 3 Fr., 1 uC. Total 70.

4. Asst. Professor DUNHAM JACKSON. — The Elements of Mechanics.

1 Gr., 1 Se., 5 Ju., 3 So., 1 uC. Total 11.

*For Undergraduates and Graduates: —*

3. Professor BÔCHER. — Introduction to Modern Geometry and Modern Algebra.

2 Gr., 3 Se., 5 Ju., 4 So. Total 14.

5a <sup>1</sup>/<sub>2</sub>f. Asst. Professor DUNHAM JACKSON. — Differential and Integral Calculus. Part I.

5 Gr., 5 Se., 22 Ju., 1 uC. Total 33.

5b <sup>1</sup>/<sub>2</sub>f. Professor OSGOOD. — Differential and Integral Calculus. Part II.

4 Gr., 2 Se., 16 Ju., 1 uC. Total 23.

1 <sup>1</sup>/<sub>2</sub>f. Asst. Professor COOLIDGE. — The Subject-Matter of Elementary Mathematics.

1 Gr., 2 Se., 1 Ju. Total 4.

18 <sup>1</sup>/<sub>2</sub>f. Associate Professor BOUTON. — The Elementary Theory of Differential Equations.

2 Gr., 2 Se. Total 4.

*Primarily for Graduates: —*

- ‡12 <sup>1</sup>/<sub>hf</sub>. Professor OSGOOD. — Infinite Series and Products.  
1 Gr., 1 Se. Total 2.
- ‡13. Dr. GREEN. — The Theory of Functions (introductory course).  
3 Gr., 1 Se., 1 R. Total 5.
- ‡14a <sup>3</sup>/<sub>hf</sub>. Professor BÔCHER. — Algebra. The properties of polynomials;  
invariants. 3 Gr., 1 Se., 1 Ju. Total 5.
- ‡22. Dr. GREEN. — Differential Geometry of Curves and Surfaces.  
1 Gr., 1 Se., 1 R. Total 3.
- ‡7 <sup>1</sup>/<sub>hf</sub>. Asst. Professor COOLIDGE. — Algebraic Plane Curves. 2 Gr. Total 2.
- ‡27 <sup>1</sup>/<sub>hf</sub>. Associate Professor HUNTINGTON. — The Fundamental Concepts of  
Mathematics. 4 Gr., 1 Se. Total 5.
- ‡10a <sup>1</sup>/<sub>hf</sub>. Asst. Professor DUNHAM JACKSON. — Introduction to the Theory of  
Potential Functions and Laplace's Equation. 4 Gr., 1 R. Total 5.
- ‡10b <sup>3</sup>/<sub>hf</sub>. Asst. Professor BIRKHOFF. — The Analytical Theory of Heat and  
Problems in Elastic Vibrations. Fourier's Series; Legendre's Poly-  
nomials. Bessel's Functions. 4 Gr., 1 Se. Total 5.
- ‡15. Associate Professor BOUTON. — Differential Equations, with an In-  
troduction to Lie's Theory of Continuous Groups. 2 Gr. Total 2.
- ‡17. Professor OSGOOD. — The Theory of Functions (second course). The  
Theta Theorem. 4 Gr. Total 4.
- ‡38 <sup>1</sup>/<sub>hf</sub>. Asst. Professor BIRKHOFF. — Integral Equations. 1 Gr. Total 1.

*Courses of Research*

- 20c. Associate Professor BOUTON. — Topics in the Theory of Point-Trans-  
formations. 1 Gr. Total 1.
- 20d. Associate Professor BOUTON. — Topics in Geometry. 1 Gr. Total 1.
- 20e. Asst. Professor BIRKHOFF. — Topics in the Theory of Differential  
Equations. 3 Gr. Total 3.

## OUT OF GROUP

## MILITARY SCIENCE AND TACTICS

- 1 <sup>hf</sup>. Major FLYNN and others. — Theoretical and practical military training.  
4 Gr., 4 S.A., 4 G.B., 26 Se., 32 Ju., 77 So., 303 Fr., 21 uC., 1 oC.,  
1 Sp., 8 L., 2 Instr. Total 483.
2. Major FLYNN and others. — Theoretical and practical military training.  
4 Gr., 41 Se., 87 Ju., 109 So., 33 Fr., 2 uC., 1 Sp., 1 L. Total 278.
- 5 <sup>hf</sup>. Professor COLE. — Regimental Supply Service.  
1 Gr., 30 G.B., 7 Se., 3 Ju., 1 So., 1 M.I.T., 1 Instr., 11 L.,  
18 others. Total 73.

History 55. (See History, p. 51.)

Geography 1. (See Geography, p. 49.)

## COURSES FOR MEN IN NAVAL RESERVE

*The following courses were limited to men in the Naval Reserve on leave of absence at the University who expected to offer themselves for the Ensign's examination.*

## MATHEMATICS

1. Asst. Professor J. L. COOLIDGE and Associate Professor BOUTON. — Mathematics. *First half-year:* Plane Trigonometry, Solid Geometry. *Second half-year:* Spherical Trigonometry, Analytic Geometry of Two and Three Dimensions.  
6 Se., 7 Ju., 10 So., 5 Fr., 3 uC., 1 ocC., 1 Sp. Total 33.

## NAVIGATION AND NAUTICAL ASTRONOMY

2. Dr. STETSON. — Navigation and Nautical Astronomy. *First half-year:* Theory and use of nautical instruments, piloting, dead reckoning, sailings. *Second half-year:* Nautical Astronomy, theory and practice in the use of the Sextant in the determination of the position of a ship at sea. Sumner Method and Method of St. Hilaire.  
1 Gr., 8 Se., 12 Ju., 13 So., 5 Fr., 4 uC., 1 ocC., 1 Sp. Total 45.

## MARINE METEOROLOGY

- 3a <sup>1</sup>/<sub>2</sub>f. Professor WARD. — Marine Meteorology. Lectures and laboratory work. 1 Gr., 8 Se., 12 Ju., 15 So., 5 Fr., 4 uC., 1 ocC., 1 Sp. Total 47.

## NAVAL PRINCIPLES AND PRACTICE

- 3b <sup>1</sup>/<sub>2</sub>f. Lieutenant Commander NOWELL. — Naval Principles and Practice. Naval regulations, military and international law, and naval history.  
1 Gr., 9 Se., 10 Ju., 9 So., 5 Fr., 4 uC., 2 Sp. Total 40.

## SEAMANSHIP, ORDNANCE, AND GUNNERY. DRILL

4. Lieutenant E. F. GREENE and Ensign W. L. BARNARD. — Seamanship, Ordnance, and Gunnery. Drill.  
1 Gr., 9 Se., 10 Ju., 9 So., 5 Fr., 4 uC., 2 Sp. Total 40.

## COURSES IN MEDICAL SCIENCES

## ANATOMY

20. Associate Professors BREMER, WARREN, and LEWIS. — Research.  
1 Gr. Total 1.

## PHYSIOLOGY

10. Asst. Professor STILES, Dr. DRINKER, and assistants. — Elementary Course.  
3 Gr. Total 3.

## BIOCHEMISTRY

20. Professor FOLIN and Asst. Professors HENDERSON and BLOOR. — Research in Biological Chemistry.  
2 Gr. Total 2.

## PATHOLOGY

3. Asst. Professor VERHOEFF. — Research. 2 Gr. Total 2.

## COMPARATIVE PATHOLOGY

2. Professor TYZZER. — Helminthology. 1 Gr. Total 1.

## BACTERIOLOGY

20. Professor ERNST. — Research. 1 Gr. Total 1.

As might be expected, the votes of the Faculty dealt in great part with the relation of students to military and naval service. At the very beginning of the year programmes in Military Science and Tactics and a programme for students on furlough from the Naval Reserve — especially for those who hoped to become Ensigns — were submitted to the Faculty by the President and were promptly adopted. The Faculty also authorized the appointment of a committee to arrange for members of the University a series of lectures on subjects of immediate interest during the war.

On October 2 the Faculty voted:

That students in their first year of residence desiring to take Military Science or otherwise to prepare themselves for military or naval service may be permitted by the Committee on the Choice of Electives to postpone until their second year any one of the prescribed courses of the Freshman year. It is understood that the total amount of their year's work shall, nevertheless, be so adjusted as to equal at least five courses.

To make sure that no man entitled to his degree should go into the war without it, the Faculty voted on November 6:

That, in the opinion of the Faculty of Arts and Sciences, candidates who have completed the requirements for their degrees should now be recommended to the Corporation for such degrees.

That special mid-year examinations, to extend not less than two hours each, be held for students entering military or naval service in January, 1918.

On February 19 the Faculty again gave the Committee on Admission power to admit without examination because of war service.

On March 26 the Faculty passed the following vote:

That for students under this Faculty who leave after April 14, 1918, and before their regular final examinations, to enter military or naval service, or any other form of national service approved in individual cases by the respective Administrative Boards, the courses thus interrupted be credited as if they had been continued to the end of the year; provided

- (1) That instructors, after applying whatever tests may seem to them expedient, shall return for such students grades representing their standing up to the time of their departure; *or*
- (2) That, if any considerable number of students shall be called to service at any one time, special final examinations shall be arranged for them.

It was understood that for all other students instruction and examinations would be conducted as usual, and that "only in exceptional cases of students with special qualifications or with special opportunity to enter other forms of service useful to the public" credit should be given until the work of the year was completed.

At the same meeting the Faculty voted:

To recommend to the President and Fellows that during the period of the War a certificate, signed by the President, be given to each student entitled to it, stating that with the approval of the University authorities he left the University before completing the requirements for his degree to enter active service in the Army or Navy of the United States or of the Entente Allies.

That a similar certificate be issued to persons who have been admitted to Harvard College, but who, because of military or naval service, have not registered.

At the next meeting the Faculty added to the foregoing votes the recommendation to the President and Fellows:

That in the Annual Catalogue, after the list of names for each class, there shall be added in a separate list the names of those persons who, with the approval of the University authorities, have left the class and the University for active service in the Army or Navy of the United States or of the Entente Allies; also the names of those persons who have been admitted to the class, but who because of such service have not registered.

On April 9 the President reported that the President and Fellows had approved all the foregoing recommendations.

On April 30 the Faculty passed the following resolution:

That in view of the altered conditions of military service consequent upon the entrance of the United States into the war, this Faculty believes that the best conservation of the resources of the country for the prosecution of the war demands that students, save in exceptional cases, should persist in the faithful discharge of their college duties until they reach the age of twenty years and nine months, when they may enter on the regular training required for a commission.

On May 21 the Dean of Harvard College and the Recorder were authorized to arrange special two-hour examinations for men going

to the Plattsburg Junior Camp in case the number of students thus leaving the University should prove sufficient to justify this arrangement.

On June 11 the Faculty voted:

That the President and those members of the Committee on Instruction who may be within reach shall have authority to make such arrangements about courses as may be necessary to put into effect the new plan of military training now being prepared by the War Department.

The foregoing series of votes makes clear the controlling motive of the Faculty — to help our students in the service of our country and her allies while sustaining so far as possible the standard of the College degree. Some concessions were necessary; but a serious lowering of the standard at a time when the higher education adds so much to a man's power of service would be a serious mistake. When preparing for military or naval service students may well change their programmes of study, and may thus bring their work to bear on the occupations of their immediate future. The quality of that work they may well afford to improve; they cannot afford to reduce its quantity.

L. B. R. BRIGGS, *Dean*.

## THE COLLEGE

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — I have the honor to present to you a report on Harvard College for the academic year 1917-18.

The number of students in the College at the time the lists were compiled for the Catalogue of 1917-18 was one thousand six hundred eighty-one, divided as follows:—

Seniors .....	215
Juniors .....	359
Sophomores .....	446
Freshmen .....	559
<hr/>	
Total number of undergraduates .....	1,579
Out-of-Course Students .....	25
Unclassified Students .....	77
<hr/>	
Total .....	1,681

Compared with the figures at the corresponding time of the preceding year, these show a loss of nine hundred one:—

	Loss
Seniors .....	209
Juniors .....	281
Sophomores .....	205
Freshmen .....	135
Out-of-Course Students .....	25
Unclassified Students .....	46
<hr/>	
	901

During the year one student died:—

George Augustine Madigan, '19 ..... April 18, 1918

Two hundred seventy-two candidates (fifty-nine in February and two hundred thirteen in June) received the degree of Bachelor of Arts. Of these one hundred forty-three were regularly registered as Seniors; the registration of the others is shown in the following table:—

On leave of absence all the year .....	23
On leave of absence first half-year .....	8
On leave of absence second half-year .....	12
Graduate Student in Arts and Sciences .....	1
Registered in the Law School .....	8
Registered in the Business School .....	3
Registered in the Junior Class .....	1
Registered as Out-of-Course Students .....	26
	<hr/> 82
To be designated "as of 1919" in the <i>Quinquennial</i> <i>Catalogue</i> .....	47
	<hr/> 129

Thirty candidates (thirteen in February and seventeen in June) received the degree of Bachelor of Science. Their registration is indicated in the next table:—

In the Senior Class .....	18
In the Junior Class .....	1
On leave of absence all the year .....	2
On leave of absence first half-year .....	1
Registered as Out-of-Course Students .....	8
	<hr/> 30

Compared with the table of last year, these last two tables show a decrease of one hundred sixty-two in the number of candidates receiving the degree of Bachelor of Arts and a decrease of forty-nine receiving the degree of Bachelor of Science.

The Freshman Class of 1918-19 shows a decrease of sixty-eight. The number of men in the Class who entered College in 1918-19 is sixty-four less than the corresponding number in 1917-18.

Forty-four students won a place in the First Group of Scholars, ninety-four in the Second Group. Of these, four in the First Group and twelve in the Second Group have not returned to College, in nearly every case because of their entrance into some form of National Service.

Of the forty-four students in the First Group, eleven have been awarded honorary scholarships; thirty-three, stipendiary. Last year sixty-one students won a place in the First Group. Of these, nineteen received honorary scholarships; forty-two, scholarships with stipend.

Of the ninety-four students in the Second Group, fifty-two have been awarded honorary scholarships; forty-two, stipendiary. Last year one hundred thirty-nine students were in this Group, fifty-two holding honorary scholarships, and eighty-seven, scholarships with stipend.

In the First Group are thirteen Seniors, seventeen Juniors, and fourteen Sophomores; in the Second Group, thirty-four Seniors, thirty-nine Juniors, and twenty-one Sophomores; giving as totals forty-seven Seniors, fifty-six Juniors, and thirty-five Sophomores.

The members of the Administrative Board for the year 1917-18 were Regent Brandegee, Professors Ward, Chase, Greenough, Lamb, Lee, Edgell, and the Dean.

In the course of the year, the Board closed the probation of ten students and the trial of one; seven students who, at some previous time, after having had their connection with the College severed, had been readmitted on condition that if their records became unsatisfactory they should withdraw upon request, failed to maintain satisfactory records and were requested to withdraw; four students were required to withdraw. At the end of the year, the connection of fifty-four students was severed because of their low records. For offenses involving moral turpitude three students were dismissed.

Throughout the year our serious administrative problems were, of course, raised by the war. Among the students who enlisted, the proportion of leaders was naturally very large. It was to be expected that the mature, the physically fit, the mentally active, would go among the first. Whether the absence of instructors or the absence of students interfered more seriously with the normal functioning of the College would be hard to say. The reduction in the number of courses given, although comparatively slight, increased the work of the Committee on the Choice of Electives. Instructors were gone whose advice would have been peculiarly valuable to students seeking to modify their programmes of study in view of approaching military service. Instructors who remained were called upon to advise an increased number of new students as well as to assume an added burden of instruction. Of both students and instructors, those who remained tried hard to preserve the best traditions and to discover new ways of service; but the absence of those who left was sorely felt.

The Administrative Board made constant effort to facilitate the enlistment of students and, at the same time, to maintain substantially the amount and quality of work represented by the degree. Mere formalities disappeared. In many instances, special instruction was given, and special examinations were held. But where the work for the degree had not been substantially performed, the Administrative Board did not recommend to the Faculty that the degree be awarded.

What has been said relates, of course, to the earned or "straight" degree. A degree "*honoris causa*," awarded on account of military service, is a different thing. We should all agree that undergraduates who left College to enter military service are entitled to every fitting honor we can bestow. In many ways, a degree "*honoris causa*" is a fitting honor. It would associate these men more closely with a group in the community to which they naturally belong and with which they would have become associated in due course if the war had not interrupted their studies. About such a degree there is no pretence. The diploma shows on its face the real basis on which the degree has been awarded.

But it is important to maintain a clear distinction between the two degrees. The honorary degree represents in part a service to which only a fraction of the Harvard men who would gladly have performed it could aspire. This service was performed, moreover, by thousands of men who never saw the inside of a college building. It was a service without any necessary relation to college work. The regular degree should represent the successful performance not of such a service but of a definite amount of intellectual work of a certain kind: namely, the kind that is done in our best colleges. Of course, no one pretends that in the cases of any two graduates this amount and kind are precisely the same. But it is possible to establish a reasonable minimum requirement of our students, and this minimum requirement should in every case be met. Every award of the degree to a man who has not fully met the requirement lessens inevitably the importance attached to good college work. Unless good college work is important, both students and instructors had better change their occupation. If our instruction is to become more thorough and more serviceable, if we are to turn out better trained men, we must insist that both the quality and the quantity of our requirements mean something. We must set the standard for our degree high, and we must maintain it.

HENRY A. YEOMANS, *Dean*.

## ATHLETIC SPORTS

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR,—The report of the Committee on the Regulation of Athletic Sports which I have the honor of submitting is appropriately brief. In 1917-18 athletics were not a serious interest either of the students or of the college public. Yale, Princeton, and Harvard had no games of football with one another except between Freshman teams. There was a Harvard eleven from the upper classes, but not for intercollegiate purposes; and this eleven, like all the teams of the year, was subject to sudden depletion and to the infusion of untried material as its members withdrew to enter the School for Ensigns or some other organization which removed them from Harvard College. Later, we had intercollegiate contests in other sports and developed a good crew; but throughout the year we purposely avoided great athletic "events." Quite properly athletics were subordinated to military training, which demanded much time and supplied much out-of-door exercise. It was the policy of Yale, Princeton, and Harvard to be represented in intercollegiate athletics by no one who was not in training for military or naval service. Some exceptions were made by common consent for men rejected by the military or naval authorities because of physical weaknesses which did not unfit them for certain kinds of athletic sport.

The sport that best withstood the shock of war was lawn tennis. When hours for simultaneous practice of men in large athletic squads are hard to find, men naturally turn for exercise to a lively game that may be played by two.

The financial statement of the Harvard Athletic Office shows greatly reduced expenditures and exceedingly small receipts. The expenses of the year were met chiefly with money laid by after the football season of 1916. When intercollegiate sport revives in a simplified form and general athletics at home receive new encouragement, it will be much easier to do away with unnecessary expenses than to secure necessary receipts.

L. B. R. BRIGGS, *Chairman.*

## THE GRADUATE SCHOOL OF ARTS AND SCIENCES

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — As Dean of the Graduate School of Arts and Sciences, I have the honor to submit a report on the School for the academic year 1917-18.

The following tables present in summary form information concerning the number and distribution of the students, recommendations for degrees, and the assignment of fellowships and scholarships.

Table I shows that the number of students registered in the School was three hundred and twenty-one. Of this number three hundred and thirteen were resident, and ten non-resident, all of whom were travelling fellows. Two names occur in both lists. Of the resident students two hundred and forty-three were in attendance during the whole year, of whom one hundred and forty-two were doing full work. Of the remaining seventy resident students, twenty-seven entered the School after November 1, and forty-seven (including four of the preceding) withdrew before the end of the year.

It will thus be seen that the effect of the first year of war has been to cut the School in half.

TABLE I. — NUMBER AND CLASSIFICATION OF STUDENTS

	1915-16	1916-17	1917-18
I. Resident Students doing full work in the School for the whole academic year . . . . .	362	326	142
Resident Students not doing full work or not working for the whole year as Resident Students . . . . .	275	308	171
	—637	—634	—313
Travelling Fellows . . . . .	15	17	10
II. Students whose studies lay chiefly in . . . . .			
Semitic Languages and History . . . . .	2	..	3
Ancient Languages (Classics and Indic Philology) . . . .	17	20	11
Modern Languages (including Comparative Literature) . .	155	161	74
History, Government, and Economics . . . . .	145	143	67
Philosophy . . . . .	77	75	32
Education . . . . .	63	61	36
Fine Arts . . . . .	5	9	1
Music . . . . .	6	6	1
Mathematics . . . . .	25	23	12
Physics . . . . .	22	23	13
Chemistry . . . . .	58	53	24
Biology . . . . .	31	30	22
Geology . . . . .	15	14	5
Anthropology . . . . .	3	8	2
Medical Sciences . . . . .	13	13	7
Unclassified Students . . . . .	15	11	11
	—652	—650	—321
III. First-year Students . . . . .	348	304	155
Second-year Students . . . . .	165	168	68
Third-year Students . . . . .	75	101	56
Fourth-year Students . . . . .	38	52	22
Students in fifth year or later . . . . .	26	25	20
	—652	—650	—321
IV. *A.B.'s and S.B.'s of Harvard University and of no other institution . . . . .	163	165	82
A.B.'s and S.B.'s (and holders of similar degrees) of other institutions and also of Harvard University . . . . .	3	6	3
A.A.'s of Harvard University . . . . .	1	..	..
Students not holding the Harvard degree of A.B., S.B., or A.A. . . . .	485	479	236
	—652	—650	—321
V. Students holding the Harvard degree of A.M., S.M., Ph.D., or S.D. . . . .	147	155	79
*Students holding the Harvard degree of A.B., S.B., or A.A., but not of A.M., S.M., Ph.D., or S.D. . . . .	126	123	58
Students holding no Harvard degree in Arts, Philosophy, or Science . . . . .	379	372	184
	—652	—650	—321

In Table II similar facts concerning residence and amount of work are set forth for a period of twenty years. Tables III and IV show the percentage of students in their first and following years and the percentage of graduates of Harvard College.

\* Harvard College Seniors on leave of absence, with work for the bachelor's degree completed or nearly completed, are counted in this Table as holders of the degrees for which they are candidates in Harvard College.

TABLE II. — NUMBER OF STUDENTS: 1898-1918

	1898-99	1899-1900	1900-01	1901-02	1902-03	1903-04	1904-05	1905-06	1906-07	1907-08	1908-09	1909-10	1910-11	1911-12	1912-13	1913-14	1914-15	1915-16	1916-17	1917-18
Resident Students doing full work in the School for the whole academic year . . . . .	218	227	226	218	216	239	273	260	281	287	290	279	311	308	344	298	334	362	326	142
Resident Students not doing full work or not working for the whole year as Resident Students . . . . .	103	99	113	86	94	123	105	133	105	119	123	156	147	139	134	197	222	275	308	171
Whole number of Resident Students . . . . .	321	326	339	304	310	412	378	393	386	406	413	435	458	447	478	495	556	637	634*	313
Non-Resident Fellows . . . . .	12	13	14	11	15	14	15	16	21	17	15	15	26	28	26	34	17	15	17*	10
Other Non-Resident Students . . . . .	3	2	..	..	..	1	2	..	..	1	1	2	..	..	..	..	..	..	..	..
Whole number of Non-Resident Students . . . . .	15	15	14	11	15	15	17	16	21	18	16	17	26	28	26	34	17	15	17	10
Whole number of Students . . . . .	336	341	353	315	325	427	395	409	407	424	429	452	484	475	504	529	573	652	650	321
Percentage of Resident Students doing full work for whole academic year . . . . .	68	70	67	72	70	70	72	66	73	71	70	64	68	69	72	60	60	57	51	44

\* One duplication.

TABLE III. — PERCENTAGE OF STUDENTS IN THEIR FIRST AND FOLLOWING YEARS: 1905-18

	1905-06	1906-07	1907-08	1908-09	1909-10	1910-11	1911-12	1912-13	1913-14	1914-15	1915-16	1916-17	1917-18
	%	%	%	%	%	%	%	%	%	%	%	%	%
First-year Students.....	53	56	57	57	56	53	54	52	50	54	53	47	48
Second-year Students.....	26	21	23	24	25	28	23	25	23	21	25	26	21
Third-year Students.....	13	14	12	12	11	11	14	14	16	14	12	15	18
Fourth-year Students and Students of longer residence.....	8	9	8	7	8	8	9	9	11	11	10	12	13

TABLE IV. — PERCENTAGE OF GRADUATES OF HARVARD COLLEGE: 1913-14 — 1917-18

	1913-14	1914-15	1915-16	1916-17	1917-18
Total enrolment.....	529	573	652	650	321
*Number of graduates of Harvard College..	152	155	166	165	82
*Percentage of graduates of Harvard College.	29 %	27 %	25 %	25 %	26 %
Number of graduates of other colleges and universities.....	377	418	486	485	239
Percentage of graduates of other colleges and universities.....	71 %	73 %	75 %	75 %	74 %

Tables V, VI, and VII indicate that the School continues to maintain its national character in the geographical distribution of its students and of the institutions from which they come to Harvard.

\* Harvard College Seniors on leave of absence are reckoned as graduates of Harvard College. A.A.'s of Harvard University are, for purposes of convenience, also so counted.



TABLE VI. — HOLDERS OF DEGREES FROM HARVARD AND  
TWENTY-FOUR OTHER COLLEGES AND UNIVERSITIES:  
1902-03 — 1917-18

	1902-03	1903-04	1904-05	1905-06	1906-07	1907-08	1908-09	1909-10	1910-11	1911-12	1912-13	1913-14	1914-15	1915-16	1916-17	1917-18	Total
Harvard.....	174	232	192	197	185	182	182	199	218	211	215	239	232	269	279	140	3346
Dartmouth.....	7	12	9	6	10	8	9	10	11	13	21	17	22	17	22	12	206
Yale.....	6	9	7	8	7	6	5	7	7	16	16	14	15	18	20	6	167
Amherst.....	10	14	8	8	7	10	9	14	8	5	5	4	8	14	7	4	135
Brown.....	11	12	7	12	4	8	9	6	7	5	7	6	12	11	11	4	132
Bowdoin.....	7	7	5	3	5	6	8	7	9	10	10	10	13	12	11	2	125
Williams.....	4	7	7	7	3	7	6	8	6	7	9	11	10	7	10	5	114
Michigan.....	7	10	5	10	6	9	7	6	3	7	6	4	7	8	11	5	111
California.....	6	4	3	3	5	6	4	5	4	6	7	9	12	14	19	4	111
Haverford.....	5	7	5	5	5	3	6	8	8	8	6	11	7	8	8	2	102
Boston Univ.....	1	5	5	7	8	6	5	3	7	8	7	8	10	6	7	4	97
Chicago.....	7	1	3	4	4	4	5	8	8	5	7	9	6	5	10	4	90
Columbia.....	6	5	1	4	7	5	11	5	5	4	..	3	6	11	13	4	90
Tufts.....	6	6	3	1	2	..	4	5	5	2	5	7	9	10	12	6	83
Princeton.....	3	2	..	3	4	4	7	8	3	3	4	5	11	13	10	3	83
Ohio Wesleyan.....	5	8	14	12	4	5	3	4	4	5	..	4	5	2	3	2	80
Northwestern.....	6	2	2	1	1	2	6	6	8	6	9	2	6	5	7	6	75
Texas.....	5	5	3	1	2	6	5	6	3	2	4	7	7	10	5	2	73
Mass. Inst. of Tech. . .	1	1	1	2	2	4	6	6	5	4	5	8	9	6	7	4	71
Kansas.....	3	3	2	3	5	3	4	7	5	7	8	4	5	6	2	1	68
Toronto.....	3	4	5	3	8	4	5	2	6	7	5	3	2	3	2	2	64
Indiana.....	3	2	3	4	5	5	3	6	6	8	..	5	2	6	2	2	62
Leland Stanford Jr....	6	4	5	3	3	4	1	1	4	3	..	1	6	6	5	1	53
Dalhousie.....	2	2	2	4	2	3	3	3	4	4	5	4	2	6	4	..	50
Oberlin.....	1	..	1	3	3	3	4	4	..	2	..	5	7	5	5	1	44
Total Membership	325	427	393	409	407	424	429	452	484	475	504	529	573	652	650	321	

TABLE VII. — BIRTHPLACES OF GRADUATE STUDENTS:  
1915-18

	1915-16	1916-17	1917-18
Students born in the New England States.....	194	204	99
Students born in other Northern States east of the Mississippi River.....	232	221	89
Students born in Southern States east of the Mississippi River.....	38	41	23
Students born in States west of the Mississippi River.....	88	97	35
Students born in the Dominion of Canada.....	23	22	7
Students born in other foreign countries.....	77	65	68
Total number of students.....	652	650	321
Percentage of students born in New England.....	30	31	31
Percentage of students born elsewhere.....	70	69	69

Tables VIII and IX set forth the number of candidates recommended for higher degrees and their distribution throughout the various Divisions and Departments.

TABLE VIII. — RECOMMENDATIONS FOR DEGREES IN 1916-18

	1916	1917	1918
I. Graduate Students recommended for A.M.....	145	144	78
Graduate Students recommended for Ph.D.....	52	67	45
	—197	—211	—123
II. Divinity Students recommended for A.M. on approved courses of study.....	1	..	1
Divinity Students recommended for Ph.D. on approved courses of study.....	.. 1	.. ..	.. 1
Total number recommended for A.M. and Ph.D.	198	211	124
III. Harvard Bachelors of Arts or Science, not previously graduated elsewhere.....	61	52	24
Harvard Bachelors of Arts or Science, previously graduated elsewhere.....	..	1	1
Harvard Associates of Arts .....	..	..	1
Students not Harvard Bachelors of Arts or Science.....	137	158	98
	—198	—211	—124

TABLE IX. — DIVISIONS AND DEPARTMENTS IN WHICH RECOMMENDATIONS FOR THE HIGHER DEGREES WERE MADE IN 1918

Division	Department	Degrees	
		A.M.	Ph.D.
Semitic Languages and History.....		2	..
Ancient Languages.....		4	..
Modern Languages:			
English.....		15	14
Germanic Languages and Literatures.....		3	..
French, and other Romance Languages.....		5	2
Comparative Literature .....		..	..
In more than one Department.....		..	..
Total in Modern Languages.....		—23	—16
History, Government, and Economics:			
History.....		10	3
Government .....		5	2
Economics .....		7	7
Total in History, Government, and Economics		—22	—12
Philosophy.....		7	6
Education .....		2	5
Fine Arts .....		..	..
Music .....		..	..
Mathematics.....		3	..
Physics .....		3	..
Chemistry .....		4	3
Biology:			
Botany.....		3	1
Zoölogy .....		4	1
Total in Biology .....		—7	—2
Geology .....		..	1
Anthropology .....		..	..
Medical Sciences .....		1	..
Undivisional .....		..	..
Professional Students:			
Divinity School .....		1	..
Total .....		70	45

The degree of Doctor of Philosophy was conferred upon the forty-five men named below.

KENNETH ELLMAKER APPEL, A.B. (*Franklin and Marshall Coll.*) 1915, A.M. (*Harvard Univ.*) 1916.

*Subject*, Philosophy. *Special Field*, Psychology. *Thesis*, "A Psycho-Physiological Study of some Geometrical Optical Illusions of Reversible Perspective." Second Lieutenant, Sanitary Corps, United States Army, acting as Assistant to Aviator Rating Officer, Medical Research Laboratory, Haselhurst Field No. 1, Mineola, Long Island, N. Y.

HERMANN FRANKLIN ARENS, A.B. 1907, A.M. 1913.

*Subject*, Economics. *Special Field*, Sociology. *Thesis*, "The Relation of the Group to the Individual in Political Theory." Economics Expert, Babson Statistical Organization, Wellesley Hills, Mass.

JAMES WASHINGTON BELL, A.B. (*Univ. of Colorado*) 1912, A.M. (*ibid.*) 1913.

*Subject*, Economics. *Special Field*, Public Finance. *Thesis*, "Taxation of Railroads in New England." Saumur Artillery School, France.

YUEN REN CHAO, A.B. (*Cornell Univ.*) 1914.

*Subject*, Philosophy. *Special Field*, Logic. *Thesis*, "Continuity: A Study in Methodology." Frederick Sheldon Travelling Fellow, at the University of California.

CO-CHING CHU, S.B. (*Univ. of Illinois*) 1913, A.M. (*Harvard Univ.*) 1915.

*Subject*, Geology. *Special Field*, Meteorology. *Thesis*, "A New Classification of the Typhoons of the Far East." In China.

BARTHOLOW VINCENT CRAWFORD, A.B. (*Cornell Coll., Ia.*) 1910, A.M. (*Harvard Univ.*) 1913.

*Subject*, Philology. *Special Field*, English Philology. *Thesis*, "The Non-Dramatic Dialogue in English Prose before 1750." Instructor in English, Rice Institute, Houston, Tex.

CHARLES WENDELL DAVID, A.B. (*Univ. of Oxford*) 1911, A.M. (*Univ. of Wisconsin*) 1912.

*Subject*, History. *Special Field*, The Twelfth Century. *Thesis*, "Robert Curthose: A Critical Biography." Associate Professor of History, Bryn Mawr College.

ALDEN BENJAMIN DAWSON, A.B. (*Acadia Univ.*) 1915.

*Subject*, Biology. *Special Field*, Zoology. *Thesis*, "The Integument of *Neoturus maculosus Rafinesque*." Professor of Biology, Mt. Allison University.

HEBERT KNIGHT DENNIS, PH.B. (*Brown Univ.*) 1912, A.M. (*Princeton Univ.*) 1914, A.M. (*Harvard Univ.*) 1915.

*Subject*, Economics. *Special Field*, Social Ethics. *Thesis*, "The French Canadians; A Study in Group Traits, with special Reference to the French Canadians of New England." Lecturer in Civics and Philanthropy, Rice Institute, Houston, Tex.

EDWIN DEWITT DICKINSON, A.B. (*Carleton Coll.*) 1909, A.M. (*Dartmouth Coll.*) 1911.

*Subject*, Political Science. *Special Field*, International Law. *Thesis*, "The Equality of States in International Law." Law Student, University of Michigan.

LAWRENCE TURNER FAIRHALL, S.B. (*Univ. of Illinois*) 1911, S.M. (*ibid.*) 1912, A.M. (*Harvard Univ.*) 1915.

*Subject*, Chemistry. *Special Field*, Physical Chemistry. *Thesis*, I. "A Study of the Equilibria in the Iridium Ammines." II. "The Specific Heats of certain Dilute Aqueous Solutions." Captain, Sanitary Corps, United States Army, at present in charge of the Department of Chemistry at the Army Medical School, Washington, D. C.

RAYMOND HERMAN GEIST, A.B. (*Adelbert Coll. of Western Reserve Univ.*) 1910, A.M. (*Harvard Univ.*) 1916.

*Subject*, Philology. *Special Field*, English Philology. *Thesis*, "The Vocabulary of Laysman's Brut, with particular Reference to Semantics."

HENRY GILMAN, S.B. 1915, A.M. 1917.

*Subject, Chemistry. Special Field, Organic Chemistry. Thesis, I. "Some Reactions of Alpha Bromo Ketonic Esters." II. "Phenyl Esters of Oxalic Acid." III. "Contributions to Aliphatic Diazo Chemistry." Instructor in Chemistry, Harvard University.*

CLYDE LECLARE GROSE, A.B. (*Findlay Coll.*) 1910, A.M. (*Harvard Univ.*) 1914,

*Subject, History. Special Field, English History. Thesis, "A Study in Anglo-French Relations under Charles II, chiefly during the Years from 1674 to 1677." Administration Officer, Brigadier General Littebrant's staff, 19th Brigade Headquarters, Fort Sill, Okla.*

HENRY BASS HALL, S.B. (*Massachusetts Agricultural Coll.*) 1912, A.M. (*Harvard Univ.*) 1916.

*Subject, Economics. Special Field, Agricultural Economics. Thesis, "A Description of Rural Life and Labor in Massachusetts at Four Periods." Production Expert in Executive Office of Aircraft Production Department, Washington, D. C.*

GEORGE EVERETT HASTINGS, A.B. (*Princeton Univ.*) 1904, A.M. (*ibid.*) 1912, A.M. (*Harvard Univ.*) 1917.

*Subject, Philology. Special Field, English Philology. Thesis, "The Life and Works of Francis Hopkinson." Instructor in English, Shattuck School, Faribault, Minn.*

JOHN CUNYUS HODGES, A.M. (*Tulane Univ.*) 1912.

*Subject, Philology. Special Field, English Philology. Thesis, "Blood Brotherhood among the Celts." Assistant Professor of English, Ohio Wesleyan University.*

PAUL KAUFMAN, A.B. (*Yale Univ.*) 1909, A.M. (*ibid.*) 1910.

*Subject, Philology. Special Field, English Philology. Thesis, "Theories of Imitation and of Original Genius in English Criticism of the Eighteenth Century." Instructor in English, Yale University, on leave of absence and acting as Assistant to the Director of the Bureau of Communication, American Red Cross Headquarters, Washington, D. C.*

JOHN EMMETT KIRSHMAN, Ph.B. (*Central Wesleyan Coll.*) 1904, Ph.M. (*Syracuse Univ.*) 1908.

*Subject, Economics. Special Field, Public Finance. Thesis, "The Taxation of Banks and Trust Companies in New England." Special Expert, Division of Planning and Statistics, United States Shipping Board, Washington, D. C.*

EDGAR COLBY KNOWLTON, A.B. 1912, A.M. 1913.

*Subject, Philology. Special Field, English Philology. Thesis, "Natura as an Allegorical Figure." Base Hospital No. 7, American Expeditionary Forces, France.*

ROBERT IRVING LITTLE, A.B. (*Univ. of Alabama*) 1901, A.M. (*Harvard Univ.*) 1912.

*Subject, Philology. Special Field, Romance Philology. Thesis, "The Moral Ideas of Chrétien de Troyes." Assistant Professor of Romance Languages, University of Alabama.*

ALAIN LEROY LOCKE, A.B. 1908 (1907), Litt.B. (*Univ. of Oxford*) 1911.

*Subject, Philosophy. Special Field, Theory of Value. Thesis, "The Problem of Classification in the Theory of Value." Assistant Professor of Philosophy and Education, Howard University, D.C.*

THOMAS COOKE MCCracken, A.B. (*Monmouth Coll.*) 1904, A.M. (*Harvard Univ.*) 1911.

*Subject, Education. Special Field, Educational Administration. Thesis, "The State Board of Education." Head of the Department of Education and Dean of the Graduate College, Colorado State Teachers College.*

ROGER PHILIP MCCUTCHEON, A.B. (*Wake Forest Coll.*) 1910, A.M. (*Harvard Univ.*) 1912.

*Subject, Philology. Special Field, English Philology. Thesis, "Book Reviewing in English Periodicals, 1640-1712." Associate Professor of English, Denison University.*

MARION O'KELLIE MCKAY, S.B. (*Ohio Northern Univ.*) 1907, A.B. (*Ohio State Univ.*) 1910, A.M. (*Harvard Univ.*) 1912.

*Subject, Economics. Special Field, Public Finance. Thesis, "The History of the Poll Tax in the New England and the Middle and South Atlantic States."* Assistant Professor of Economics, New Hampshire College.

JOHN LEVI MANAHAN, S.B. (*Ohio Northern Univ.*) 1912, P.D.B. (*ibid.*) 1912, A.M. (*Harvard Univ.*) 1914.

*Subject, Education. Special Field, Educational Administration. Thesis, "State Classification and Standardization of High Schools."* Chief of Educational Service, in charge of Reconstruction Work, at Asalea, N. C.

JAMES THEODORE MARRINER, A.B. (*Dartmouth Coll.*) 1914, A.M. (*Harvard Univ.*) 1915.

*Subject, Philology. Special Field, English Philology. Thesis, "The Prose News-Book and News-Sheet under the Tudors."* Third Secretary of Legation of the United States of America, at Stockholm, Sweden.

ARTHUR ELI MONROE, A.B. 1908, A.M. 1914.

*Subject, Economics. Special Field, History of Economic Thought. Thesis, The Theory of Money before 1776."* Instructor in Economics, and Tutor in the Division of History, Government, and Economics, Harvard University.

JAMES LOCKHART MURSELL, A.B. (*Univ. of Queensland*) 1915.

*Subject, Philosophy. Special Field, History of Philosophy. Thesis, "Descartes's Theory of Space."* Student, Union Theological Seminary, N. Y.

PITMAN BENJAMIN POTTER, A.B. 1914, A.M. 1916.

*Subject, Political Science. Special Field, International Law. Thesis, "The Development of the Doctrine of the Freedom of the Seas, as an Aspect of International Maritime Jurisdiction."* Law Clerk, Division of International Law, Carnegie Endowment for International Peace, Washington, D. C.

JOHN LESLIE PURDOM, A.B. (*Central Univ., Ky.*) 1906, A.M. (*Harvard Univ.*) 1911.

*Subject, Education. Special Field, Educational Administration. Thesis, "School Surveys and some Criteria of Efficiency in City School Administration."* Professor of Secondary Education, College of Education, University of Arkansas.

VERNON BLAIR RHODENIZER, A.B. (*Univ. of Manitoba*) 1913, A.M. (*Harvard Univ.*) 1917.

*Subject, Philology. Special Field, English Philology. Thesis, "Studies in Stephen Hawes's Pastime of Pleasure."* Professor of English, Acadia University.

GEORGE CARLTON ROBINSON, A.B. (*Univ. of Toronto*) 1909, A.M. (*Harvard Univ.*) 1912.

*Subject, Education. Special Field, Educational Administration. Thesis, "An Historical and Critical Account of Public Secondary Education in the Province of Ontario, 1792-1916."* Associate Professor of Education, State College of Washington.

STANLEY ISRAEL RYPINS, A.B. (*Univ. of Minnesota*) 1912, A.M. (*ibid.*) 1913.

*Subject, Philology. Special Field, English Philology. Thesis, "Three Anglo-Saxon Prose Tracts of Cotton MS. Vitellius A.xv, edited with a Study of their Sources and Characteristics."* Sergeant, Intelligence Office, Camp Wadsworth, S. C.

FREDERIC SCHENCK, A.B. 1909, LITT.B. (*Univ. of Oxford*) 1912, A.M. (*Harvard Univ.*) 1914.

*Subject, History. Special Field, English History. Thesis, "London Merchants in the Reign of Edward I."* Secretary of the Committee on the Use of English by Students, Member of the Faculty of Arts and Sciences, and Tutor in the Division of History, Government, and Economics, Harvard University. (Died 28 February, 1919.)

WALTER CECIL SCHUMB, A.B. 1914, A.M. 1916.

*Subject, Chemistry. Special Field, Physical Chemistry. Thesis, I. "The Free Energy of Formation of Thallous Iodide." II. "The Solubilities and Indices of Refraction of the Nitrates of Common Lead and Uranio-Lead." III. "Some Halogen Derivatives of Ortho-vanillin."* Assistant Gas Chemist, Research Division, Chemical Warfare Service, National Army.

- EDWIN ADAMS SHAW, S.B. (*Tufts Coll.*) 1898, A.M. (*Harvard Univ.*) 1916.  
*Subject, Education. Special Field, Educational Psychology. Thesis, "The Constructive Type of Intelligence Test."* Assistant Professor of Education and Psychology, Tufts College.
- ALWIN THALER, A.B. (*Adelphi Coll.*) 1912, A.M. (*Columbia Univ.*) 1914.  
*Subject, Philology. Special Field, English Philology. Thesis, "Finance and Business Management of the Elisabethan Theatre."* Third-Year Graduate Student.
- RAY ETHAN TORREY, S.B. (*Massachusetts Agricultural Coll.*) 1912, A.M. (*Harvard Univ.*) 1916.  
*Subject, Biology. Special Field, Botany. Thesis, "On Mesozoic and Tertiary Coniferous Woods."* Instructor in Biology, Wesleyan University, Conn.
- REES EDGAR TULLOSS, A.B. (*Willenberg Coll.*) 1906, S.T.B. (*Hanna Divinity School*) 1909, A.M. (*Harvard Univ.*) 1917.  
*Subject, Philosophy. Special Field, Psychology. Thesis, "The Learning Curve."* Pastor First English Lutheran Church, Mansfield, O.
- FRANCIS ASBURY WATERHOUSE, A.B. 1905, A.M. 1906.  
*Subject, Philology. Special Field, Romance Philology. Thesis, "Sedaine the Librettist."* Adjunct Professor of French, University of Texas.
- ARTHUR FRANKLIN WHITE, A.B. (*Adelbert Coll. of Western Reserve Univ.*) 1912.  
*Subject, Philology. Special Field, English Philology. Thesis, "John Crowne, his Life and Dramatic Works."* Instructor in English, Rice Institute, Houston, Tex.
- KENNETH CROCKAR RUTHERGLEN WHITE, A.B. (*Adelbert Coll. of Western Reserve Univ.*) 1912, A.M. (*Harvard Univ.*) 1915.  
*Subject, Philology. Special Field, English Philology. Thesis, "The American Lyceum."* Wellesley Hills.
- NEWMAN IVEY WHITE, A.B. (*Trinity Coll., N. C.*) 1913, A.M. (*ibid.*) 1914, A.M. (*Harvard Univ.*) 1915.  
*Subject, Philology. Special Field, English Philology. Thesis, "Shelley's Dramatic Poems."* Instructor in English, Washington University.
- CHARLES HENRY WOOLBERT, A.B. (*Northwestern Univ.*) 1900, A.M. (*Univ. of Michigan*) 1909.  
*Subject, Philosophy. Special Field, Psychology. Thesis, "Effects of Various Modes of Public Reading."* Assistant Professor of Speech, University of Illinois.

TABLE X. — FELLOWSHIPS AND SCHOLARSHIPS (1916-19)<sup>1</sup>1. *Applications and Appointments*

	1916-17	1917-18	1918-19
Spring applicants for reappointments or promotion.....	82	73	89
Spring applicants for a first appointment.....	357	320	114
Later applicants.....	47	56	47
	—486	—449	—200
Appointed to fellowships.....	38	26	13
Appointed to scholarships.....	84	56	22
Appointed instructors, teaching fellows, or assistants.....	39	14	7
	—161	—96	—42
Deduct for repetitions.....			3
	—161	—96	—39
Entered or continued in the Graduate School of Arts and Sciences without receiving any of the above-named appointments.....	74	35	17
Entered undergraduate classes of Harvard College.....	2	1	..
Entered other Departments of the University.....	14	6	..
	— 78	— 90	— 17
Applicants who were at the University in the year following their applications.....	251	138	56
Applicants not at the University in that year.....	235	311	144
	—486	—449	—200

<sup>1</sup> This Table is based primarily upon the work of the Committee on Fellowships and other Aids for Graduate Students, and therefore does not always represent the total number of appointments awarded to Graduate Students in any given year, since certain appointments are made by the Corporation upon the direct recommendation of the Committee on the Sheldon and on other General Fellowships and in similar ways. It is, however, sufficiently accurate for purposes of comparison.

## 2. Classification of Applicants and Appointees

	1916-17		1917-18		1918-19	
	Applicants	Appointees	Applicants	Appointees	Applicants	Appointees
Students of Philology .....	154	35	148	26	67	15
Students of History, Political Science, Philosophy, or Education .....	179	49	168	34	81	15
Students of Mathematics, Physics, or Chemistry .....	87	23	74	9	27	3
Students of Natural History .....	57	11	44	11	21	..
Students of other branches, or unclassified. ....	9	4	15	2	4	2
	486	122	449	82	200	35
Students in Graduate School of Arts and Sciences .....	140	48	138	36	59	14
Students in Harvard College .....	31	4	31	4	9	1
Students in other Departments of the University .....	5	1	1	...	4	3
Former Students in some Department of the University .....	51	18	36	8	20	2
Persons never previously members of the University .....	259	51	243	34	108	15
	486	122	449	82	200	35
*Harvard Bachelors of Arts or Science, not previously graduated elsewhere .....	47	15	42	6	17	4
Harvard Bachelors of Arts or Science previously graduated elsewhere .....	...	...	...	...	...	...
Graduates of other institutions, not Harvard Bachelors of Arts or Science .....	334	80	303	61	147	27
Undergraduates of Harvard College .....	31	4	27	4	9	1
Undergraduates of other institutions and other non-graduates .....	74	23	77	11	27	3
	486	122	449	82	200	35

Twenty-nine fellowships were assigned for the year 1917-18, including two John Harvard Fellowships without stipend. There were nineteen resident and ten non-resident appointments. A list of the incumbents follows. After the name of each fellow is given the name of his fellowship, the subject that he studied, and his present occupation. The place of study of the non-resident fellows is also indicated.

\* Harvard College Seniors on leave of absence are reckoned as graduates of Harvard College.

## TRAVELLING FELLOWS

- JOSEPH PETER CONNOLLY**, Frederick Sheldon Fellow. Geology. Arizona.  
In service in the Quartermaster's Corps.
- WILLIAM JOHN CROZIER**, Frederick Sheldon Fellow. Zoölogy. Bermuda.  
Assistant Professor of Physiology, University of Illinois College of Medicine, Chicago, Ill.
- RAPHAEL DEMOS**, Frederick Sheldon Fellow. Philosophy. London.  
Frederick Sheldon Fellow, in London.
- ALBERT RICHARD CARL HAAS**, Frederick Sheldon Fellow. Botany. Berkeley, Cal.  
With Chemical Warfare Service, Madison, Wis. Instructor in Botany, Pennsylvania State College, on leave of absence.
- CARL KEISTER MCKINLEY**, Elkan Naumburg Fellow. Music. New York.  
Organist and Director of Music, Centre Church, Hartford, Conn.
- DWIGHT ELMER MINNICH**, Parker Fellow. Zoölogy. Berkeley, Cal.  
Sergeant, U. S. Base Hospital No. 30, American Expeditionary Forces, France.
- HAROLD ST. JOHN**, Frederick Sheldon Fellow. Botany. Fort Kent, Me.  
Second Lieutenant, Company D, 309th Machine Gun Battalion, American Expeditionary Forces, France.
- RAY ETHAN TORREY**, Frederick Sheldon Fellow. Botany. Glenwood Springs, Colo.  
Instructor in Biology, Wesleyan University, Conn.
- NENZO UTSURIKAWA**, Frederick Sheldon Fellow. Anthropology. Japan.  
Continuing his studies in Java.
- JOHN HENRY WILLIAMS**, Frederick Sheldon Fellow. Economics. Buenos Ayres.  
Instructor in Economics, Harvard University.

## RESIDENT FELLOWS

- KENNETH ELLMAKER APPEL**, Edward Austin Fellow. Psychology.  
Second Lieutenant, Sanitary Corps, United States Army, acting as Assistant to Aviator Rating Officer, Medical Research Laboratory, Haselhurst Field No. 1, Mineola, Long Island, N. Y.
- YUEN REN CHAO**, Philip H. Sears Scholar. Philosophy.  
Frederick Sheldon Fellow, at the University of California.
- CHUNGTAO TAHMY CHU**, John Harvard Fellow. Economics.  
Second-year Graduate Student.
- BARTHOLOW VINCENT CRAWFORD**, Harris Fellow. English.  
Instructor in English, Rice Institute, Houston, Tex.
- ALDEN BENJAMIN DAWSON**, John Thornton Kirkland Fellow. Zoölogy.  
Professor of Biology, Mt. Allison University.
- EMERY DAVIS EDDY**, Edward Austin Fellow. Botany.  
Assistant Pathologist, U. S. Bureau of Plant Industry.
- ALBERT JOHN HETTINGER, Jr.**, Edward Austin Fellow. Economics.  
Statistician, Operating Statistics Section, Division of Operation, United States Railroad Administration.
- JOHN CUNYUS HODGES**, Christopher M. Weld Scholar. English.  
Assistant Professor of English, Ohio Wesleyan University.
- KANG-FUH HU**, John Tyndall Scholar. Physics.  
Teaching at La Academia Utopia, Shanghai, China.

**JOSEPH BRADLEY HUBBARD, Henry Lee Memorial Fellow. Economics.**  
Special Expert for the United States Tariff Commission.

**BENJAMIN HARRISON LEHMAN**, Willard Scholar. English.  
Assistant in English.

**FREDERICK MERK**, Edward Austin Fellow. History.  
Assistant in History.

**JAMES LOCKHART MURSELL**, Thayer Fellow. Philosophy.  
Student, Union Theological Seminary, N. Y.

**LESTER MARSH PRINDLE**, William Watson Goodwin Fellow. Classics.  
Company V, 6th Development Battalion, Camp Upton, N. Y.

**PAUL BIGELOW SCHAEFFER**, Thayer Fellow. History.  
354th Infantry, American Expeditionary Forces, France.

**JOHN LAWRENCE TEARE**, Ozias Goodwin Memorial Fellow. Government.  
Died at Bumkin Island Naval Training School, 11 September, 1918.

**ALWIN THALER, Thayer Fellow. English.**  
Third-year Graduate Student.

**CHAN-CHAN TSOO, John Harvard Fellow. Mathematics.**  
Fourth-year Graduate Student.

**BYRON EDWARD UNDERWOOD, Jr., Henry Bromfield Rogers Memorial Fellow.**  
**Philosophy.**  
 Unit No. 1, Friends' War Victims Relief Committee, France.

**ARTHUR FRANKLIN WHITE, Thayer Fellow. English.**  
**Instructor in English, Rice Institute, Houston, Texas.**

TABLE XI.—CANDIDATES FOR THE MASTER'S DEGREE: 1915-18

	1915-16	1916-17	1917-18
Whole number of men who applied for, or stated an intention of applying for, the A.M. degree .....	250	229	103
Of these there received the degree .....	154	143	77
" " had the degree postponed because of charges unpaid.....	4	1	2
Of these there had the degree postponed to await necessary lapse of time from conferral of Bachelor's degree..	5	3	..
Of these there made a sufficient record but did not apply " " " " voluntarily withdrew .....	1 9	3 ..	.. ..
Total number who completed work .....	— 173	— 150	— 79
Of the rest there died .....	..	..	..
" " " " withdrew from the School before the end of the year .....	13	15	13
" " " " failed because of incomplete or unsatisfactory records .....	52	55	9
" " " " " French condition .....	4	3	1
" " " " " German condition....	1	2	..
" " " " " both French and German conditions .....	2	1	..
" " " " " other conditions .....	2	1	1
" " " " withdrew from candidacy because of assistantships .....	3	1	..
" " " " were not admitted to candidacy because of amount of outside work .....	..	1	..
Total number who did not complete work.....	— 77	— 79	— 24
	— 250	— 229	— 103

The list of occupations of last year's holders of fellowships and recipients of degrees, under the circumstances necessarily incomplete, is representative of the activities of the Graduate School and its former members in the war. Some have performed their service in maintaining the traditions of sound learning and effective teaching in American colleges and universities. Others have placed their expert knowledge at the disposal of the various departments and bureaus of the civil government. Still others hold commissions in line or staff, on land and sea. A privileged group bear their stars on the honor roll of Harvard's dead. The spirit of service was in the men themselves; the Graduate School likes to think that its training has made their work more effective.

CHARLES H. HASKINS, *Dean*.

## GRADUATE SCHOOL OF BUSINESS ADMINISTRATION

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — As Acting Dean, I have the honor of presenting a report upon the Graduate School of Business Administration for the academic year 1917-18, the tenth year of the School's life.

The number of students registered is shown in the following comparative table, counting as "regular" students college graduates taking full work in the School:—

Date	Regular Students				Unclassified Students	Special Students			Totals
	1st yr.	2d yr.	Grad.	Total		A*	B†	Total	
1908-09	33	..	.	33	.	25	22	47	80
1909-10	42	8	.	50	.	15	26	41	91
1910-11	43	10	.	53	.	15	26	41	94
1911-12	55	10	.	65	.	12	19	31	96
1912-13	77	11	.	88	.	13	19	32	120
1913-14	66	32	.	98	1	13	5	18	117
1914-15	107	27	.	134	1	19	12	31	166
1915-16	116	40	.	156	1	16	17	33	190
1916-17	133	50	1	184	9	22	17	39	232
1917-18	38	30	.	68	4	13	12	25	97

\* College graduates taking partial work.

† Not holding college degrees.

### DISTRIBUTION BY COLLEGES, 1917-18

Amherst College .....	2	Georgetown University .....	1
Bates College .....	1	Grinnell College .....	1
University of Birmingham, Eng- land .....	1	Harvard University .....	19
Boston College .....	1	Holy Cross College .....	3
Boston University .....	1	Iowa State Teachers' College ..	1
Brown University .....	2	Leland Stanford Jr. University .	1
The Citadel, Charleston, S. C.	1	Massachusetts Institute of Technology .....	1
Clark University .....	1	Miami University .....	1
Colby College .....	1	Montana State College .....	1
College of the City of New York	1	New Hampshire College .....	1
Cornell College, Iowa .....	1	New York University .....	1
Cornell University .....	1	Northwestern University .....	1
Dartmouth College .....	2	Oberlin College .....	3
Doshisha College, Japan .....	1	Ohio State University .....	1

## 88 GRADUATE SCHOOL OF BUSINESS ADMINISTRATION

Ohio University .....	1	University of Rochester .....	1
Olivet College .....	1	Utah Agricultural College .....	1
Osaka Higher Commercial School, Japan .....	1	Wabash College .....	1
Park College .....	1	Washburn College .....	1
Pomona College .....	1	Wesleyan University, Conn. ....	1
Princeton University .....	3	West Virginia Wesleyan Univer- sity .....	1
St. John's University .....	2	Whitman College .....	1
Simpson College .....	2	Williams College .....	1
Tokyo Imperial University ....	1	Wofford College .....	1
Tulane University .....	1	Worcester Polytechnic Institute	1
University of Idaho .....	1	Yale University .....	2
University of Illinois .....	1		
University of Kansas .....	1	Total .....	92
University of Maine .....	1	Total number of College Grad- uates .....	85
University of Michigan .....	2	Total number of Colleges rep- resented .....	58
University of Missouri .....	1	Counted more than once ....	7
University of New Mexico ....	1		
University of Oregon .....	2		
University of Pennsylvania ....	3		

### DISTRIBUTION BY COLLEGES, 1908-18

1908-09 .....	14	1913-14.....	47
1909-10 .....	19	1914-15.....	64
1910-11 .....	22	1915-16.....	71
1911-12 .....	24	1916-17.....	84
1912-13 .....	42	1917-18.....	58

### DISTRIBUTION BY STATES, 1917-18

<b>STATES:</b>		<b>STATES:</b>	
California .....	1	Ohio .....	6
Connecticut .....	1	Oregon .....	3
Idaho .....	1	Pennsylvania .....	2
Illinois .....	6	Rhode Island .....	2
Indiana .....	1	South Carolina .....	2
Iowa .....	5	Texas .....	1
Kansas .....	3	Utah .....	2
Louisiana .....	1	Vermont .....	1
Maine .....	2	Washington .....	2
Massachusetts .....	26	West Virginia .....	1
Michigan .....	2		
Missouri .....	1	<b>FOREIGN COUNTRIES:</b>	
Montana .....	1	Canada .....	2
New Hampshire .....	2	China .....	7
New Mexico .....	1	Japan .....	3
New York .....	8	Sweden .....	1

## DISTRIBUTION BY STATES, 1908-18

Year	States	Foreign Countries	Year	States	Foreign Countries
1908-09	12	2	1913-14	28	2
1909-10	16	5	1914-15	35	4
1910-11	20	2	1915-16	34	3
1911-12	20	4	1916-17	35	3
1912-13	26	4	1917-18	26	4

The degree of Master in Business Administration was conferred in June, 1918, upon twenty-six men, whose names are given below, with the subjects of their graduation theses;—

Franklin Peveril Aiton, S.B. 1917.

"An Analysis and Criticism of Sole Leather Accounting in a Specific Business."

Charles Schofield Carroll, A.B. (*Holy Cross Coll.*) 1908, A.M. (*Clark Univ.*) 1909.

"A Study of the Cost Factors of Automatic Screw Machines and their Disposition in Machine Rates."

Hasen Atherton Chandler, A.B. (*Amherst Coll.*) 1916.

"The Scheduling of Work in a Certain Manufacturing Company."

William Ray Chapman, A.B. (*West Virginia Wesleyan Coll.*) 1915, A.M. (*ibid.*) 1916.

"Stimulation of Prompt and Thorough Waste Reclamation in Cambridge."

Chi Pang Chow, A.B. (*St. John's Univ.*) 1913, S.B. (*Univ. of Pennsylvania*) 1916.

"The Possibilities of Stimulating Chinese Savings for Railroad Investment."

Robert Leonard Cudd, A.B. (*Wofford Coll.*) 1916.

"Bank Cost Accounting with respect to Check Collection."

Paul LeRoy Dildine, A.B. (*Miami Univ.*) 1914.

"The Scheduling of Work in the 'Fine' Departments of a Wire Cloth Factory."

Henry Kien-Tung Fung, A.B. (*St. John's Univ.*) 1913, A.M. (*Princeton Univ.*) 1915.

"Proposed Plan for the Re-establishment of the Over, Short and Damage Department in the Freight Claim Office, New York, New Haven and Hartford Railroad Company, Boston, Massachusetts."

Edward Frederick Gerish, A.B. (*Ohio State Univ.*) 1915, A.M. (*ibid.*) 1916.

"The Solicitation of Traffic by American Railways, with Special Reference to the Traffic Department of the New York, New Haven and Hartford Railway."

Fred Lemuel Ham, A.B. 1915.

"A Scheduling System for the Brass Valve Department of a Specific Manufacturing Company."

William Edward Lackey, A.B. (*Univ. of Oregon*) 1915.

"Distribution of Power Costs in a Printing Plant."

Malcolm Mark Libby, S.B. in M.E. (*Worcester Polytechnic Inst.*) 1900, S.B. in E.E. (*ibid.*) 1903.

"A Suggested Plan for the Reduction of Coal Wastages on the Boston and Maine Railroad."

Walter Jefferson McCorkle, A.B. (*Park Coll.*) 1915.

"A Proposed Plan for a Stock Feeding Company to be owned by the Cotton Ginnings of Dallas County, Texas."

Neil Laughlin MacKinnon, A.B. (*Boston Univ.*) 1916.

"Some Recent Commercial Effects of the Price Policies of American Book Publishers."

Millard Bartlett Pinkham, S.B. (*Mass. Institute of Technology*) 1915.

"A Suggested Policy for a Woven Wire Company in its Relations to Supply Houses."

Wayne Anthony Ridgway, A.B. (*Univ. of Kansas*) 1914.

"Methods of Grain Elevators since 1900 in Kansas, Nebraska, Missouri, Oklahoma, and Texas."

Herbert Dern Ritchey, A.B. (*Princeton Univ.*) 1916.

"The Routing Problem in a Certain Electric Heating Company."

Elmer Allen Sheets, Jr., LITT.B. (*Princeton Univ.*) 1916.

"The Financial Structure of Central Power Station Development as Typified by Particular Companies."

Edward Anthony Sippel, S.B. (*Northwestern Univ.*) 1916.

"An Analysis of the Cereal Beverage Market in Metropolitan Boston."

Nathan Houston Small, A.B. (*Univ. of Maine*) 1913.

"The Relation of the Credit Department to the Sales Department."

Paul Howard Smith, S.B. (*Grinnell Coll.*) 1915.

"Routing and Control Problems in a Specific Textile Plant."

Edward Goodell Stacy, S.B. (*Colby Coll.*) 1911.

"An Analysis of Chain Grocery Business from an Investment and Credit Standpoint."

John Minard Van Voris, A.B. (*Wesleyan Univ., Conn.*) 1916.

"A Study of the Routing of Specific Products for a Surgical Instruments Factory."

Tingsheng Shenfu Wei, A.B. 1916.

"Terms on which Argentina, Brazil and Chile have acquired Foreign Capital for their Internal Development."

Louis Ireton Wolfe, A.B. (*Oberlin Coll.*) 1916.

"Government Checking of Material and Labor in the Building and Repairing of Ships on the Cost Plus Basis."

Chien Yang, M.E. (*Cornell Univ.*) 1916.

"A Control Board System for a Specific Winding Machine Company."

The following men in the above list secured the degree of Master in Business Administration "with distinction": —

Charles Schofield Carroll  
Millard Bartlett Pinkham

The two prizes of one hundred dollars and fifty dollars, offered annually by Mr. George Oliver May of New York for the two best graduation theses, were awarded as follows: first prize of one hundred dollars to Mr. Charles Schofield Carroll, and second prize of fifty dollars to Mr. Paul Howard Smith. Valuable assistance was rendered by Mr. Herbert Mason of Boston in coöperating with the members of the staff in reading graduation theses with a view to awarding the May prizes.

During the year 1917-18, grants to students from the Business School Loan Fund were made to the amount of eleven hundred and fifty dollars (\$1150). Repayments to the amount of one thousand and fifty-five dollars and forty-four cents (\$1055.44) and gifts amounting to one hundred and fifty dollars (\$150) were received. At the opening of the fiscal year 1918-19, there was a balance on hand of one thousand seven hundred and thirty-eight dollars and sixty-seven cents (\$1738.67).

Several changes and additions were made to the program of instruction. Instead of a general second-year course in Marketing, the advanced work in this subject was offered in the form of the following half-year courses: Advertising, Marketing of Perishable Food Products, Retail and Wholesale Store Management, and Purchasing. Professor Cherington conducted the courses in Advertising and Retail and Wholesale Store Management, and Mr. McCarty the course in Purchasing. It was deemed expedient to merge the courses in Law relating to Railroad Rate-Making and Railroad Traffic and Rate-Making into a single course on Railroad Rate-Making. The work in second-year Factory Management was modified and the instruction in this field was announced under the title of Factory Management Problems, a research course to be taken with Taylor System of Management. The nomenclature of three Transportation courses was changed, Railroad Administration becoming Railroad Organization, Analysis of Railroad Problems becoming Railroad Operating Problems, and Railroad Accounting and Statistics becoming Railroad Accounting. Business Statistics, second-year course, was not offered.

In 1916 there was established in charge of Mr. Stone an exhibit of business devices. Machines whose total value is \$20,000 have

been deposited by their manufacturers without charge in Lawrence Hall and also in Randall Hall. The room in Lawrence Hall which is devoted to this exhibit is under the supervision of an attendant. Opportunity is thus given the students to familiarize themselves with the mechanical devices essential to modern factory and business administration. The coöperation of the manufacturers in thus placing with us these valuable machines is highly appreciated.

Owing to war conditions several changes occurred in the Faculty during the course of the year. Dean Gay found that his work with the Commercial Economy Board, Council of National Defense, and later as Director of the Division of Planning and Statistics of the Shipping Board, required all his time in Washington. He was therefore granted leave of absence at the mid-year period for the rest of the year. Professor Cunningham had charge of the Business Policy course during Mr. Gay's absence.

Professor Copeland was granted leave of absence for the entire year as he had been appointed Secretary of the Commercial Economy Board, now known as the Conservation Division of the War Industries Board, Washington. His work in Business Statistics was given during the second half-year by Professor Gries, who was also charged with the duties of Acting Director of the Bureau of Business Research. During April and May, Professor Gries was in Washington in the service of the Government, and during his absence the work in the course in Business Statistics was carried on by Mr. P. H. Smith, an advanced student in Business Statistics.

Naval Constructor Coburn was detailed to Philadelphia by the Navy Department as Manager of the Naval Aircraft Factory. All the Industrial Management courses were therefore conducted by Mr. Farquhar. During an absence by Mr. Farquhar in Washington from mid-years until the end of March, an arrangement was made with Professor Erwin H. Schell of the Massachusetts Institute of Technology to take charge of the courses in Taylor System and Factory Management Problems. Mr. F. L. Ham of the second-year class acted as Assistant. The second half-year course in Factory Practice was not offered during 1917-18.

Professor Cherington was called to Washington in March as Special Expert in the Division of Planning and Statistics of the Shipping Board. He was given leave of absence from March until the end of the academic year. The entire work in Marketing was taken over by Mr. McCarty. From March 12, 1918, the course in Chamber of Commerce Work and Methods was conducted by Mr. J. P. Foster, formerly with the Boston Chamber of Commerce,

and the course in Retail and Wholesale Store Management by Mr. G. E. Cole, Manager of the Harvard Coöperative Society. Both men are former Business School students.

Before the opening of the college year, Dr. Klein was called to Washington as Chief of the Latin-American Division of the Bureau of Foreign and Domestic Commerce. It was accordingly decided to omit the courses in Latin-American Trade Problems and European Trade.

The following courses which were offered were not elected: Railroad Operating Problems, Railroad Rate-Making, Life Insurance Principles, Life Insurance Agency Methods, Actuarial Practice, Printing and Publishing (second-year course), Chamber of Commerce Problems, Public Utilities Operation (second-year course), Principles of Forestry, and Lumber Problems (second-year course). The course in Printing and Publishing (first-year course) was discontinued at mid-years, owing to the fact that the four men taking the course all entered government service.

Professor Cole, who last year obtained a commission as Captain in the Quartermaster Officers' Reserve Corps, was detailed to this University during 1917-18 to give instruction in Regimental Supply. Such a course was given by him from December 10, 1917, to March 30, 1918. The field covered by the course included regimental, battalion, and company allowances of quartermaster, subsistence, and other (unit accountability) supplies, methods of procuring and issuing supplies, property accountability, money accountability, and the transportation duties of supply officers. Forty-five men completed this course creditably, fifteen being Business School men. Another course in Regimental Supply began on July 1, 1918, also under Professor Cole.

Miss M. L. Smith served as Secretary of the School during 1917-18.

In accordance with the practice of preceding reports, I am glad to acknowledge the coöperation in our instruction during the past year of the following outside lecturers: —

#### ADVERTISING

E. K. Woodman of Boston: "Service Departments of Newspapers."

#### FACTORY MANAGEMENT

L. P. Alford of New York: "Labor-Saving Machinery and Labor-Saving Management."

J. B. Andrews of New York: "Labor Legislation."

L. H. Ballou of Walpole: "Scientific Management in Practice" (three lectures).

- C. P. Dennett of Boston: "Principles Involved in General Organization, Standard Practice Methods, and Cost Accounting."  
 H. S. Dennison of Framingham: "An Experiment in Industrial Partnership."  
 R. B. Farquhar, Jr., of Watertown: "Organization."  
 H. P. Kendall of Norwood: "Unsystematized, Systematized, and Scientific Management."  
 Gifford LeClear of Boston: "Power and Power Plants" (two lectures).  
 H. C. Metcalfe of Medford: "Welfare Work."  
 W. J. Rhodes of Cambridge: "Dealing with Labor."  
 C. E. Shaw of Framingham: "Labor — Employment and Personnel Problems" (two lectures).  
 J. F. Tobin of Boston: "Labor Unions."

TAYLOR SYSTEM OF MANAGEMENT AND FACTORY MANAGEMENT PROBLEMS

- L. H. Ballou of Walpole: "Scientific Management in Practice" (two lectures).  
 Naval Constructor F. G. Coburn, U. S. N.: "Scheduling" (three lectures).  
 W. O. Lichtner of Boston: "Time Study" (two lectures).  
 R. A. Wentworth of Lowell: "Maintenance and Standardization of Equipment" (two lectures).

BUSINESS POLICY

- R. B. Carter of Boston: "A Problem of Organization" (three lectures).  
 W. R. Champney of Boston: "Tea and Coffee Business."  
 Howard Coonley of Boston: "Plant Location" (three lectures).  
 W. H. Cottingham of Cleveland: "A Managerial Problem in the Manufacture and Sale of Paint" (two lectures).  
 P. E. Fitzpatrick of Boston: "A Managerial Problem in the Wholesaling of Dry-goods" (three lectures).  
 J. T. Gilman of Boston: "Employment" (Relations between Employers and Employees) (three lectures).  
 G. L. Graham of Boston: "A Traffic Problem."  
 Paymaster A. Hovey-King, U. S. N.: "A Managerial Problem in Government Cost Accounting" (three lectures).  
 C. H. Jones of Boston: "A Marketing Problem" (three lectures).  
 W. J. Joyce of Boston: "A Labor Problem" (three lectures).  
 H. P. Kendall of Norwood: "A Problem of Finance" (two lectures).  
 J. S. Lawrence of Boston: "A Managerial Problem in the Wholesaling of Textiles" (two lectures).  
 W. P. Libby of Plymouth: "A Freight Classification Problem in Binding Twine Manufactures."  
 G. K. Manson of Boston: "A Problem of Organization in the Telephone Business" (three lectures).  
 H. W. Mason of Boston: "A Managerial Problem in Paper Production" (three lectures).  
 E. G. Preston of Boston: "A Problem in the Wholesaling of Groceries" (three lectures).  
 W. F. Severn of Bridgeport, Conn.: "A Managerial Problem in the Wholesaling of Lumber" (three lectures).

- W. L. Shaw of Boston: "A Personnel Problem of War-time Labor Administration" (three lectures).  
 T. W. Slocum of New York: "A Managerial Problem in the Marketing of Textiles" (two lectures).

## FIRE INSURANCE ENGINEERING

- E. A. Barrier of Boston: "Chemical Fire Hazards."  
 W. W. Crosby of Boston: "General Building Construction"; "Fireproof Construction" (six lectures).  
 H. A. Fiske of Boston: "Importance of Knowledge of Fire Insurance Engineering to the Successful Insurance Broker."  
 M. F. Jones of Natick: "The Hazard of Heating Devices"; "The Hazards of Certain Manufacturing Processes" (two lectures).  
 C. W. Mowry of Boston: "Automatic Sprinklers."  
 Isaac Osgood of Boston: "High Service Water Systems."  
 T. E. Sears of Boston: "Inside Protection"; "Public Protection, Fire Departments" (four lectures).  
 C. H. Smith of Boston: "Plan Drafting and Notation" (two lectures).  
 Ralph Sweetland of Boston: "Electrical Hazards"; "Automatic Fire Alarms, Watchman's Supervisory Systems" (three lectures).  
 F. H. Wentworth of Boston: "Duties and Relations of the Various Organizations whose Purpose is the Reduction of Fire Waste" (two lectures).

In connection with this course the hearty coöperation of the Underwriters' Bureau of New England, the Boston Board of Fire Underwriters, and the Associated Factory Mutual Insurance Companies is greatly appreciated by the School.

## PRINTING

- H. L. Baker of New York: "Printing Presses" (two lectures).  
 A. W. Elson of Belmont: "Reproducing Processes" (three lectures).  
 W. A. Spurrier of Boston: "Cylinder Press Make-Ready."

There have been added during the past year the following firms which are available for the inspection of our students: —

Boston Belting Company, Boston.  
 J. S. Cushing Company, Norwood.  
 Clinton Wire Cloth Company, Boston.  
 Davis and Furber Machine Company, North Andover.  
 Henley Kimball Company, Cambridge.  
 Lewis Manufacturing Company, Walpole.  
 Randall Faichney Company, Jamaica Plain.  
 Universal Winding Company, Providence.

A visit was made by the Purchasing class to Sampson and Murdock Company, Boston, for the purpose of learning the use of directories to find sources of supplies. The kind coöperation of these firms and others mentioned in earlier reports affords our

students, in Factory Management courses especially, valuable, practical laboratory instruction.

In May, 1918, the Bureau of Business Research published Bulletin No. 10, Management Problems in Retail Shoe Stores. This bulletin gives the results of the Bureau's inquiry into buying, selling, and stock-handling methods and operating costs of representative shoe stores throughout the United States during the last six years. In June, its study of the retail hardware trade was commenced. Following the usual plan a uniform accounting system similar to the Harvard Systems of Accounts for Shoe Retailers and Retail Grocers was published. Upon this system as a basis figures on operating expenses for hardware retailers are being collected. Up to July, 1918, the Bureau has received confidential information from over one thousand shoe retailers, from nearly one thousand two hundred retail grocers, from two hundred and sixty wholesale grocers, and from a considerably smaller number of shoe wholesalers. In the spring, 1917, summaries showing the common figures for operating costs and profit for retail shoe and grocery stores, for general stores, and for wholesale grocers were given to members of the trades who had coöperated by sending the Bureau their 1917 statements. The Bureau is now receiving consecutive statements from many coöperators in the various trades. An increasing number of business men are annually availing themselves of this opportunity to compare their costs with these up-to-date summaries of figures received from others operating the same kind of business under similar conditions.

The following men addressed the Business School Club during 1917-18:—

Charles F. Collins, of the New England Mutual Life Insurance Company, Boston.

Walter H. Cottingham, President, The Sherwin-Williams Company, Cleveland.

Professor W. J. Cunningham, Harvard Business School Faculty.

Professor R. T. Fisher, Harvard Business School Faculty.

W. F. Forbes, Forbes Lithograph Company, Revere.

L. K. Liggett, President, United Drug Company, Boston.

W. B. Medlicott, Harvard Business School Faculty.

W. L. Shaw, of the W. H. McElwain Company, Boston.

Melville H. Smith, Advertising Manager, Curtis Publishing Company, Boston.

Professor O. M. W. Sprague, Harvard Business School Faculty.

C. A. Whipple, Manager, Basement Store, William Filene Sons' Company, Boston.

The Harvard Business School Association, composed of Business School Alumni, issued in December, 1917, a booklet containing names of former members of the School now in Government Service. Of the first-year and second-year students registered in the School during 1917-18, ten have gone into the Army and twenty-six into the Navy.

War-time conditions have necessitated an unprecedented number of changes in the staff of instructors during the year, and also a more or less continuous thinning of the ranks of the student body. In view of these conditions there is ground for satisfaction in the extent to which the work of the School has been kept up to the standard of previous years.

L. F. SCHAUB, *Acting Dean.*

## THE SCHOOL OF ARCHITECTURE

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — I have the honor to submit a report on the School of Architecture for the academic year 1917–18.

The registration was as follows:—

Regular students.....	10
Special students.....	5
Travelling fellow .....	1

This shows a loss of fourteen regular students and of eleven special students as compared with the year 1917–18.

Besides the graduate students, fifteen different undergraduates took those of our courses which are open to them, with a total registration of twenty-seven.

The regular students were graduates of the following colleges and technical schools:—

Harvard College.....	7	Miami University.....	1
Illinois, University of.....	1	Minnesota, University of.....	1

The enrolment of students in the several courses was as follows:—

Arch. 1a. Undergraduates.....	12	Arch. 4a. Undergraduates.....	0
Graduates.....	4	Graduates.....	2
Arch. 1b. Undergraduates.....	3	Arch. 4b. ".....	4
Graduates.....	6	Arch. 4c. ".....	12
Arch. 1c. Undergraduates.....	3	Arch. 5a. ".....	2
Graduates.....	6	Arch. 5b. ".....	5
Arch. 2b. Undergraduates.....	5	Arch. 5c. ".....	5
Graduates.....	1	Arch. 5d. ".....	Not given
Arch. 2c. Undergraduates.....	3	Arch. 6a. ".....	6
Graduates.....	1	Arch. 6b. ".....	6
Arch. 3a. Undergraduates.....	1	Arch. 6c. ".....	3
Graduates.....	3	Arch. 7. ".....	5
Arch. 3b. ".....	2	Arch. 8. ".....	Not given
Arch. 3c <sup>1</sup> . ".....	8	Arch. 9. ".....	" "
Arch. 3c <sup>2</sup> . ".....	5	Arch. 10a. ".....	3
Arch. 3d <sup>1</sup> . ".....	6	Arch. 10b. ".....	2
Arch. 3d <sup>2</sup> . ".....	2	Arch. 20a. ....	Not given

Due to the war there were no Summer School courses in Architectural Design in 1918.

The degree of Master in Architecture was granted in June, 1918, to

BERNHARD ERNST DIRKS, B.S. in Arch. (*Univ. of Illinois*), 1915.

HENRY ATHERTON FROST, A.B., 1905.

On account of war conditions, L. E. Mowery, the holder of the Nelson Robinson Jr. Travelling Fellowship in Architecture, voluntarily vacated it temporarily and entered upon work for the U. S. Naval Aviation Forces in Paris. There are three other men who have won travelling scholarships now waiting to take advantage of them. The war conditions also made it seem undesirable to offer the Nelson Robinson Jr. Fellowship in 1918.

The prize of the Boston Society of Architects for regular students was awarded to Ralph Carver Roudebush.

The Scholarship for Special Students (won by a competition in design) was awarded to Edward A. Eames, Jr.

Charles Howard Walker was appointed Lecturer on the History of Architecture and Arthur Brown, Jr., C.E., *Architecte Diplômé par le Gouvernement Français*, was appointed Lecturer on Design for the second half-year. Roger Noble Burnham, Instructor in Modelling, resigned, and his place was taken by John Wilson. William Graves Perry and Walter Grant Thomas, Instructors in Architectural Design in previous years, were not reappointed on account of the expected reduction in number of students and they both became officers in aviation construction.

The approximate number of additions to the library during the year were as follows:—

Books, bound periodicals and bound pamphlets . . . . .	161
Photographs . . . . .	96

Joint problems in design between our School, the Department of Architecture at the Massachusetts Institute of Technology, and the Boston Architectural Club have continued throughout the year. These problems have served to stimulate the interest of all the students taking part and given them means of comparing their work with that of students of other schools. The problems are judged by a common jury of representatives from the three staffs and the discussions at the judgments have been of great value to the instructors themselves.

Hermann Dudley Murphy, Instructor in Drawing from the Life, began work in the summer of 1918 as a camoufleur for the United States Shipping Board. Henry Atherton Frost, Instructor in Architecture, served during the summer as housing investigator

and project manager for the United States Housing Corporation under the Department of Labor. During the college year some of our instructors aided in training the R. O. T. C. in mapping.

Our regular students are all college graduates and our special students must all be over twenty-one years of age, so that they were all subject to the first draft law. Few of them waited, however, to be drafted, and the instructors have given much advice to former students in connection with branches of the service where their particular professional training and experience seemed most likely to be useful. We know something of the military services of about seventy-five of them, of whom about a quarter are in combatant branches of the service and the others are using their professional knowledge more or less in engineering, camouflage, quartermaster's work, and the various kinds of design, drafting, construction, and inspection.

CHARLES W. KILLAM, *Chairman.*  
*School of Architecture.*

## THE SCHOOL OF LANDSCAPE ARCHITECTURE

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — As Chairman of the School of Landscape Architecture I have the honor to submit the following report for the academic year 1917-18.

By reason of the enlistment, in various branches of war service, of all but two \* of our students of the preceding year, and of the direct effect of the war upon the plans of those intending to come to us, our total of registrations in the School during the year was reduced to six, making with two travelling fellows a membership of eight; of the six resident students, five were regular candidates for our professional degree, and the sixth a special student.†

The regular students and travelling fellows were graduates of the following colleges:—

Harvard College.....	1
Massachusetts Agricultural College.....	2
Oberlin College.....	1
Pennsylvania State College.....	2
Western Reserve University (Adelbert College).....	1
	—
Total .....	7

Of the eight members of the School, only one came to us from Harvard College. Of the six remaining college graduates, four had already taken, in the several institutions from which they came, full undergraduate professional courses in Landscape Architecture.

The enrolments in courses were as follows:—

Land. Arch. 1.	Undergraduates.....	7
	Graduates.....	2 9
Land. Arch. 2.	" .....	2
Land. Arch. 3.	" .....	4
Land. Arch. 4.	" .....	2
Land. Arch. 5.	(Not given.).....	
Land. Arch. 6.	Graduates.....	2
Land. Arch. 7.	" .....	2
Land. Arch. 8.	" .....	1
Land. Arch. 9.	" .....	3
Land. Arch. 10.	" .....	4
Land. Arch. 11.	" .....	1
Land. Arch. 20.	(Not given.).....	
Summer Course.	(Not given.).....	

\* Of these, one enlisted in the Navy early in the year under review, the other was physically disqualified.

† These figures differ from those in the University Catalogue for 1917-18, owing to the return, late in the year, of one of our regular students of the previous year.

Both travelling fellows were in war service, and the postponement of the exercise of their respective fellowships continued.

The degree of Master in Landscape Architecture was granted at Commencement to:

SAMUEL DANFORD ZEHRUNG, S.B. (*Mass. Agricultural Coll.*) 1915, of Roseville, Ohio. (*Thesis*, "A Village for Partially Disabled Soldiers.")

JAMES HUGH SMITH, A.B. (*Oberlin Coll.*) 1908, of Wallingford, Vermont. (*Thesis*, "An Industrial Town for Shipyard Workers.")

On account of the war, the annual competition for the Charles Eliot Travelling Fellowship and the usual Trophy Competition were omitted.

The most important work published during the year by members of the School's staff was "An Introduction to the Study of Landscape Design," by Henry Vincent Hubbard and Theodora Kimball.

Throughout the year, Professor Hubbard and Captain (now Major) Pond were on leave of absence for technical war service in Washington, and, as no new appointments were made, the courses given were carried by the Chairman and Mr. Hamblin. In June, the Chairman was again called, as a town-planner, into technical war service which continued through the academic year.

The members of the Council of the School for the year 1917-18 were as follows:—

JAMES STURGIS PRAY, A.B., Charles Eliot Professor of Landscape Architecture, and Chairman of the Council of the School of Landscape Architecture.

HENRY VINCENT HUBBARD, A.M., S.B., Assistant Professor of Landscape Architecture (on leave of absence throughout the year).

BREMER WHIDDEN POND, S.B., M.L.A., Instructor in Landscape Architecture (on leave of absence throughout the year).

STEPHEN FRANCIS HAMBLIN, S.B., Instructor in Horticulture.

Not only was the war-time value of the training of the landscape architect clearly shown by the fact that a very large proportion of our former professional students, and virtually all of our teaching staff, were employed by the Government in technical ways, including the planning of army and navy camps and cantonments; and the laying out of new towns, and additions to old ones, for accommodation of the laborers in the shipbuilding, munition making, and other pressing war industries; but the Government recognized the great value of our School's town-planning collections and the unique knowledge and experience of the School's Special Librarian, Miss Kimball. The Bureau of Industrial Housing and Transportation (now the United States Housing Corporation) of the

Department of Labor formally sought, and, with the consent of the Corporation of the University, was given the use of these collections, and of a large part of Miss Kimball's time, appointing her Consulting Librarian to the Bureau. While it was thus necessary for her, during the remainder of the academic year, to spend much time in Washington directing the labors of her ever increasing library staff there, she was able to give enough time to our library to keep up some of its most essential lines of work. All new titles and references acquired for the Bureau were duplicated for the School's library, and many important accessions of actual publications were secured, particularly ones relating to European reconstruction, cantonment planning, industrial housing, and villages for partially disabled ex-service men. The accessions to our various collections, and the totals of these collections at the end of the year, were as follows:—

	Accessions	Totals
Books and continuations, approx.....	100 *	2,145
Pamphlets, approx. ....	125 *	2,139
Maps and plans, including those deposited indefinitely by the American Society of Landscape Architects, approx.....	350	3,000
Photographs, approx.....	25	4,400
Postcards, approx.....	100	13,700
Lantern slides.....	2	4,456
Models.....	1	5

\* The difference in figures as compared with last year is due to the new system of counting required for the Harvard University Libraries, beginning December, 1917.

These collections are important in equipping our School to serve directly and efficiently in the necessary period of adjustment following the conclusion of hostilities, when there is every indication that trained landscape architects, especially those who are town planners, will be in unprecedented demand.

JAMES STRUGIS PRAY, *Chairman*.

## THE BUSSEY INSTITUTION

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR,—As Dean of the Bussey Institution I have the honor to present the following report for the year 1917-18:

Owing to the war the number of students engaged in work at the Bussey Institution suffered considerable diminution. During the year, including the summer term, only seven graduate students were registered. Those attending the various courses given by members of the Faculty both at Cambridge and at Forest Hills were distributed as follows:

Zoölogy	7a (Morphology and Classification of Insects).....	4
"	7c (Practical Entomology).....	2
"	8 (Genetics and Eugenics).....	31
"	20d (Research in Variation, Heredity, etc.).....	2
"	20f (Research in Economic Entomology).....	3
Botany	20f (Research in Plant Genetics).....	2
"	20b (Applied Botany).....	1
Forestry	20a (Research in Dendrology).....	2
"	20b (Research in Silviculture and Forest Management)	1
Total.....		48

At Commencement, 1918, the degree of Master of Science was conferred on Mr. Robert James Dobson, and the degree of Master of Forestry on Elwood Idell Terry; the degree of Doctor of Science on James Percy Baumberger, Donald Forsha Jones and Walter Wesselhoeft Tupper. Mr. Baumberger's thesis is entitled "A Nutritional Study of Insects, with Special Reference to Micro-organisms and their Substrata"; that of Mr. Jones, "The Effects of Inbreeding and Crossbreeding upon Development," and that of Mr. Tupper, "Size Variation in Tracheary Cells: A Comparison between the Secondary Xylems of Vascular Cryptogams, Gymnosperms, and Angiosperms."

The Anna C. Ames scholarship was held by Mr. W. Y. Chun, the George H. Emerson scholarship by Mr. K. Sax, the University scholarship by Mr. L. C. Dunn, and the Priscilla Clark Hodges scholarship by Mr. A. C. Kinsey.

Owing to the draft Mr. Sax and Mr. Dunn were unable to continue their work at the Institution. Both of these young men, together with Mr. F. G. Carnochan, Mr. Baumberger, Mr. Tupper and my assistant, Dr. W. Trojano, are now serving in the army.

A notable contribution to the resources of the Institution was made by Professor Oakes Ames in his donation of his collection of economic plants to the University. This collection, brought together by Professor Ames from all parts of the world with great enthusiasm and at considerable expenditure of time and money, comprises a surprising number of specimens very compactly arranged and carefully labelled. The student of economic botany is thus enabled to study not only the plants from which our foods, textiles and building materials are derived but also the products themselves.

The activities of the teaching staff of the Bussey Institution have been largely a continuation of those recorded in my report for 1916-17, but the publication of results, notwithstanding the shortage of paper and dearth of labor in printing establishments since the beginning of the war, has been more extensive than during any previous year of the Institution's history. Professor Castle has continued his genetic researches on the small mammals with the aid of a grant from the Carnegie Institution and on the dairy cattle of the late Mr. T. J. Bowlker at South Framingham, Mass. For reasons of economy Professor East discontinued his experiments on the hybridization of *Nicotiana* species and devoted part of his time to writing and publishing several important papers on sterility in plants. Professors East, Ames, and Bailey continued and amplified their work in connection with the Botanical Raw Products Committee of the National Research Council. Dr. R. W. Glaser made progress in his investigations in insect diseases in coöperation with the Federal Bureau of Entomology. Professor Brues published several papers on parasitic Hymenoptera and was of invaluable service in assisting the students in their laboratory work. Much of my time was devoted to completing the manuscript for two volumes, one on the behavior of insects and one on the ants of the Belgian Congo.

In conclusion I beg leave to include Professor Fisher's report on the work carried on under his supervision in the Harvard Forest at Petersham, Mass.

WILLIAM MORTON WHEELER, *Dean*.

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#### REPORT ON THE HARVARD FOREST

During the past year the exigencies of war time have continued to restrict the functions of the Forest. The work of organizing farm production for the town of Petersham, undertaken for the Committee of Safety in April, 1917, has expanded considerably and

during the present crop season has taken the greater part of the Director's time. There was an increase of over eight hundred bushels of grain over last year's yield, of which nearly three hundred were wheat. On the Harvard land itself, more acreage than last year was devoted to farm crops, principally beans, wheat and potatoes. The Milton Boys' Camp repeated its service of 1917 with still greater satisfaction to its employers; and for the town as a whole the production of staples, particularly grains, was more than doubled.

In forestry proper, the work of the year has been limited to the necessary routine of woods operations, maintenance of records, etc. With the end of the fiscal year 1917-18, the forest found itself for the first time with its equipment all paid for and a cash surplus on the Treasurer's books. This will go partly into repairs to buildings and partly to improvements and experiment in the woods. In addition to its own investigations, the Forest was able to offer the Government material for a field study relating to the control of the white pine blister rust; and the Bureau of Pathology has covered nearly an acre with experimental chemical treatments for the eradication of wild currant. Also, during the summer the elimination of all *Ribes* (wild and cultivated) in the town has been about half completed. The technical records of forest work, always difficult to keep up with and always expanding, have been brought very nearly up to date. In this task, great assistance has been rendered by Mr. E. I. Terry, exchange professor and research student from the University of Colorado, who is still at the Forest completing his investigation of last year. Two other students are pursuing research in forestry, one working in Silviculture and Management at Petersham, and the other in Dendrology at the Arboretum. The character of the positions offered students upon leaving continues to demonstrate the value of advanced training and specialization.

The Director has published during the year the following papers:

"Silviculture for Country Roadsides." Bulletin 123 of the Massachusetts Forestry Association.

"The Yield of Volunteer Second Growth as Affected by Improvement Cutting and Early Weeding." *Journal of Forestry*, May, 1918.

R. T. FISHER, *Director*.

## THE DIVINITY SCHOOL

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — As Dean of the Divinity School, I have the honor to present the following report for the year 1917-18.

During the year our teaching force has been sadly reduced by the death of Professor Ryder, Andover Professor of New Testament Interpretation, and the retirement of Professor Emerton, Winn Professor of Ecclesiastical History. Ten years ago when Andover Theological Seminary moved to Cambridge and became affiliated with the University, there were grave apprehensions among the friends both of Andover and of the Harvard Divinity School. It was evident that serious problems would arise between the two Faculties requiring tact, patience and mutual confidence for their proper solution. That happy relations were promptly established and have been confirmed through the years is due, in my judgment, more to Professor Ryder than to any other single member of either Faculty. It was reported that he doubted the wisdom of the removal, but, when the decision was made, he accepted it loyally and did his utmost to make the affiliation a success. Although he belonged primarily to Andover, as an Andover Professor in Harvard University whose courses were taken freely by our students, he belonged to us also, and the memory of his sound scholarship, aptness to teach, gracious courtesy and unvarying friendliness has become part of the noble and ennobling tradition of our School.

During the thirty-six years that Professor Emerton has been a member of our Faculty he has conferred ever growing distinction upon the School. Teaching ecclesiastical as part of general history, approaching it in the same spirit and applying to it identical methods of research, he has helped to bind the Graduate School and the Divinity School more closely together, and has given to successive classes of theological students not only historical knowledge but also a sound historical method and a trustworthy historical sense. His service to the School and to its students has been very great, and his retirement is a grievous loss.

Naturally the continuance of the war has caused some changes in the work of the School. In January the Navy Department took over Divinity Library to be used as a recreation building for the

Radio School. This made necessary the finding of other rooms for our classes and for the administration of the School. With generous hospitality Andover Theological Seminary put at our disposal rooms in its building for both purposes, and with the exception of a very few classes which found it more convenient to meet in the Semitic Museum on account of its nearness to the College Yard, all of our work has been carried on without interruption in the Andover building.

The courses announced were given substantially in accordance with the schedule, although Professor Ropes's service to the State Department of Food Conservation permitted him to give much less time to the School than would otherwise have been the case. Attendance at the School fell off about thirty per cent, and it was noteworthy that for the first time in many years no student of the School received the S.T.B. degree on Commencement Day. All the undergraduates of the year before had gone into war service either as officers of the line or in reconstruction activities. There were, however, five men who received the degree of S.T.M. and two the degree of Th.D. Each of the recipients of the Th.D. degree has already received a teaching appointment, one in the Presbyterian College of Montreal, the other in Dakota Wesleyan University, and one of those who received the S.T.M. degree has been appointed professor of the New Testament in Iliff Theological School. It is gratifying to note that our advanced students are able to secure teaching positions in various denominations as evidence that the nonsectarian character of the School is finding recognition and appreciation.

A most conspicuous testimony to the same fact was given by the success of the Conference of Theological Schools held under the auspices of the University last August. To one who remembers the prejudice against Harvard and particularly the Harvard Divinity School widespread in religious circles not many years ago, the response of forty-nine theological schools to its invitation was most gratifying, all the more because each institution answered without knowing which or how many others were accepting. That the conference could be held at all and particularly that it could be held at Harvard is highly significant. That its result will be a greater coöperation among the seminaries of this country and Canada in the work of theological education is certain.

During the year, forty-nine students were in residence during the entire year, one student withdrew in October, three in November,

one in January, five at the close of the first half-year, and one in March, and four new students were enrolled at the beginning of the second half-year. The distribution of the total enrolment was as follows:—

Resident Graduates.....	20
Middle Class.....	1
Junior Class.....	2
Unclassified Students.....	3
Andover Students.....	18
Episcopal Theological School Students.....	6
Boston University School of Theology Students.....	11
Newton Theological Institution Students.....	3
	—
Total.....	64

Forty-eight colleges were represented as follows:—

Acadia University.....	2	Mt. Union College.....	1
Bates College.....	1	Muhlenberg College.....	1
Bethany College.....	1	Northwestern University.....	1
Bombay University.....	1	Ohio Wesleyan University.....	1
Boston University.....	4	Pennsylvania College.....	1
Bowdoin College.....	3	Princeton University.....	1
Brown University.....	1	Robert College, Constantinople..	1
Carson-Newman College.....	1	Simpson College.....	1
Colby College.....	1	Syrian Protestant College.....	1
College of the Pacific.....	1	Transylvania University.....	1
Columbia University.....	4	Union College.....	1
Cornell University.....	1	University of California.....	1
Cumberland University.....	1	University of Cincinnati.....	1
DePauw University.....	2	University of Maine.....	1
Ewing College.....	1	University of Michigan.....	1
Hamilton College.....	1	University of Rochester.....	1
Harvard University.....	8	University of Southern California	2
Hobart College.....	2	University of Toronto.....	1
Iowa State Teachers' College....	1	University of Wisconsin.....	1
Iowa Wesleyan University.....	1	Wesleyan University.....	2
Knox College.....	1	Western Reserve University....	1
McGill University.....	1	Yankton College.....	1
Marietta College.....	1		68
Missouri Valley College.....	1	Counted more than once.....	8
Missouri Wesleyan College.....	1		60
Morningside College.....	1		

Sixteen theological seminaries were represented by graduates as follows: —

Andover Theological Seminary..	4	Pacific School of Religion.....	1
Boston University School of Theology.....	9	Presbyterian College of Montreal	1
Concordia Theological Seminary..	1	Rochester Theological Seminary..	1
Garrett Biblical Institute.....	2	San Francisco Theological Seminary.....	1
General Theological Seminary...	1	Union Theological Seminary....	1
Harvard University.....	9	Victoria University.....	1
Lutheran Theological Seminary, Gettysburg, Pa. ....	1	Yale School of Religion.....	1
Lutheran Theological Seminary, Mt. Airy, Pa. ....	1		39
Newton Theological Institution..	4	Counted more than once.....	5
			34

The interchange of instruction between the Faculty of the School and the Faculty of Arts and Sciences indicates the extent of the contribution made by the Divinity School to the general work of the University. This interchange between the two Faculties in 1917-18 was as follows: —

Divinity students, including Andover, the Episcopal Theological School, Boston University School of Theology and Newton Theological Institution students, electing courses offered primarily by the Faculty of Arts and Sciences: —

		H.D.S.	And.	E.T.S.	B.U.	N.T.I.
Anthropology .....	1	0	0	0	1	0
Economics.....	2	0	0	0	2	0
Education.....	4	1	0	0	0	3
English.....	4	0	0	3	0	1
French.....	2	1	0	0	1	0
German.....	1	1	0	0	0	0
Latin.....	1	0	1	0	0	0
History.....	7	0	2	0	5	0
Philosophy.....	16	9	5	0	1	1
Psychology.....	1	0	0	0	1	0
Social Ethics.....	8	7	0	0	0	1
	47	19	8	3	11	6

Non-Divinity students electing courses offered primarily by the Divinity School: —

		Grads.	Undergr.	Special
Old Testament.....	17	6	11	0
Church History.....	12	9	3	0
History of Religions.....	12	5	7	0
Theology.....	28	7	20	1
	69	27	41	1

The interchange of instruction between the Harvard Divinity School and Andover Theological Seminary was as follows:—

Harvard Divinity students electing courses offered primarily by Andover Theological Seminary:—

Old Testament .....	2
New Testament .....	3
Church History .....	1
Theology .....	1
	<u>7</u>

Andover students electing courses offered primarily by the Divinity School:—

New Testament .....	8
Church History .....	3
History of Religions .....	18
Theology .....	18
Public Speaking .....	9
	<u>56</u>

The interchange of instruction between the Harvard Divinity School and the Episcopal Theological School was as follows:—

Harvard Divinity students electing courses offered primarily by the Episcopal Theological School:—

Old Testament .....	4
New Testament .....	4
Theology .....	1
	<u>9</u>

Episcopal Theological School students electing courses offered primarily by the Divinity School:—

New Testament .....	7
History of Religions .....	4
	<u>11</u>

The interchange of instruction between the Harvard Divinity School and Boston University School of Theology was as follows:—

Harvard Divinity students electing courses offered primarily by University School of Theology:—

Religious Education .....	3
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Boston University School of Theology students electing courses offered primarily by the Harvard Divinity School:—

New Testament .....	2
History of Religions .....	2
Theology .....	3
	<u>7</u>

Newton Theological Institution students electing courses offered primarily by the Divinity School: —

Theology..... 2

The following is a list of the courses of instruction given in the School in the year 1917-18. With each course is a statement of the number of students electing it from the Divinity School, Andover Theological Seminary, the Episcopal Theological School, Boston University School of Theology, Newton Theological Institution, the Graduate School of Arts and Sciences, and Harvard College. In the courses given in the affiliated schools and taken only by students in those schools, no record of attendance is given. No record is made in cases where a student registered primarily in Andover or the Episcopal School enrolled for a course in the other institution without registration in the Harvard Divinity School.

## COURSES OF INSTRUCTION

### OLD TESTAMENT

- E1. Professor KELLNER. — Hebrew for Beginners. 2 Div., 5 Coll.
2. Professor LYON. — Hebrew (second course). — Syntax. Extensive reading in the Old Testament. 1 Gr., 4 Coll.
- E2 <sup>1</sup>/<sub>2</sub>f. Professor KELLNER. — Hebrew. Exegetical study of the prophet Isaiah-ben-Amoz. *Half-course (first half-year)*.
- A4 <sup>1</sup>/<sub>2</sub>f. Professor ARNOLD. — History of Israel. *Half-course (first half-year)*. 1 Div., 16 And.
- E4 <sup>2</sup>/<sub>2</sub>f. Professor KELLNER. — Hebrew. Sight-reading in Genesis, Deuteronomy, Kings, Jonah, Ruth, and Esther. *Half-course (second half-year)*. 1 Div.
- A5. Professor ARNOLD. — Introduction to the Old Testament. — History of the text; the formation of the Canon; historico-critical study of the origin, form, and contents of the several books. 1 Div., 11 And., 1 Gr.
- E5a <sup>1</sup>/<sub>2</sub>f. Professor KELLNER. — Old Testament Introduction: The composition of the Hexateuch; the Historical Books, and the Moral Tales. *Half-course (first half-year)*.
- E5b <sup>2</sup>/<sub>2</sub>f. Professor KELLNER. — Old Testament Introduction: The Prophetic Books, the Poetical Books, and the Wisdom Literature. *Half-course (second half-year)*. 1 Div.
11. Professor LYON. — Assyrian (second course). 1 Div., 1 Gr., 2 Coll.
12. Professor LYON. — History of Babylonia and Assyria. 1 Div., 1 Gr.
14. Professor JEWETT. — Arabic (second course). — De Goeje's edition of Wright's *Grammar*, selections from the Qorān, the Hadith, and classical writers on geography and history. 1 Div.

17. Dr. WOLFSON. — Jewish Aramaic. — The Aramaic portions of Daniel and Ezra; inscriptions and papyri; selections from the Targums; Marti's *Biblisch-Aramäische Grammatik*; Staerk's and Ungnad's editions of the Aramaic papyri of Elephantine; Dalman's *Aramäische Dialektproben*. 1 Div., 1 Gr.
18. Professor JEWETT. — Syriac. — Brockelmann's *Syrische Grammatik*; selections from the Peshitto. 1 Gr.

## NEW TESTAMENT

1. The New Testament.
  - (a) Professors RYDER, ROPES, LAKE, and HATCH, and Mr. Nash. — The Books of the New Testament. (*First half-year*.) 5 Div., 4 And., 3 E.T.S.
  - (b) Professor HATCH. — The Ideas of the New Testament. (*Second half-year*.) 4 Div., 4 And., 3 E.T.S.
- A3. Professor RYDER. — Interpretation of the Synoptic Gospels. 3 Div., 8 And., 1 B.U.
- E4 <sup>1</sup>/<sub>2</sub>f. Professor HATCH. — The Fourth Gospel. *Half-course (first half-year)*. 2 Div.
- E5 <sup>1</sup>/<sub>2</sub>f. Professor HATCH. — The Epistles of Paul and Ignatius. *Half-course (second half-year)*. 2 Div.
- 10 <sup>1</sup>/<sub>2</sub>f. Professor LAKE. — The Johannine Gospel and Epistles. *Half-course (second half-year)*. 4 Div., 1 E.T.S., 1 B.U.
20. Professors RYDER, ROPES, and LAKE. — Advanced study and research. Special work of competent advanced students on such topics of New Testament study as they may desire to undertake. Systematic guidance in the exegetical study of any books of the New Testament will be provided so as to meet the individual needs of advanced students.

## CHURCH HISTORY

1. Professor EMERTON. — The First Eight Christian Centuries. — The Conflict of Christianity with Paganism to its alliance with the Frankish State. Origin and Development of the Roman Papacy. The Germanic races as the basis of a new Christian civilization. 4 Div., 2 And., 3 Gr., 1 Coll.
- E1. Professor WASHBURN. — The History of the Church and of Doctrine during the first ten centuries.
- A2. Professor PLATNER. — History of Christian Doctrine. 1 Div., 1 And.
- E2. Professor WASHBURN. — The History of the Church and of Doctrine from the beginning of the eleventh century to the present day.
3. Professor EMERTON. — The Era of the Reformation in Europe from the rise of Italian Humanism to the Close of the Council of Trent (1350-1563). 1 Div., 6 Gr., 2 Coll.
- E3 <sup>1</sup>/<sub>2</sub>f. Professor WASHBURN. — The English Church, the English State, and the Papacy from the beginning to the Reformation. *Half-course (first half-year)*.

- 4b <sup>1</sup>/<sub>2</sub>f. Professor EDWARD C. MOORE. — The Expansion of Christendom and the Naturalization of Christianity in the Orient, more particularly during the nineteenth century. *Half-course (second half-year)*. 1 And.
- E4 <sup>1</sup>/<sub>2</sub>f. Professor WASHBURN. — Four English Churchmen. *Half-course (second half-year)*.
- A8 <sup>1</sup>/<sub>2</sub>f. Professor PLATNER. — History of Congregationalism. *Half-course (second half-year)*.
- 20 <sup>1</sup>/<sub>2</sub>f. Professor EMBERTON. — Practice in the Study and Use of Materials for Church History. 1 Div.

## HISTORY OF RELIGIONS

- 1a <sup>1</sup>/<sub>2</sub>f. Professor G. F. MOORE. — Origin and Development of Religion. *Half-course (first half-year)*. 8 Div., 5 And., 1 B.U., 3 Gr., 3 Coll.
- 1b <sup>1</sup>/<sub>2</sub>f. Professor G. F. MOORE. — Origin and Development of Religion. *Half-course (second half-year)*. 7 Div., 2 And., 1 B.U., 2 Gr., 4 Coll.
- 4 <sup>1</sup>/<sub>2</sub>f. Professor G. F. MOORE. — Judaism at the beginning of the Christian Era. *Half-course (first half-year)*. 3 Div., 1 And.
- 7 <sup>1</sup>/<sub>2</sub>f. Professor LAKE. — The Religion of the Roman Empire at the Beginning of the Christian Era. *Half-course (second half-year)*. 2 Div., 10 And., 4 E.T.S., 3 Coll.
- 20a. Professor G. F. MOORE, with Professors ROPES and LAKE. — Conference. The Formation of Early Christian Tradition. 1 Div.
- 20z. Professor MOORE will direct the reading and investigations of properly qualified students in the general history of religion or in particular fields. 1 Div.

## THEOLOGY

- 1 <sup>1</sup>/<sub>2</sub>f. Professor FENN. — Theism. *Half-course (first half-year)*. 5 Div., 7 And., 1 N.T.I.
- E1. Professor DROWN. — The System of Christian Doctrine. 2 Coll.
- 2 <sup>1</sup>/<sub>2</sub>. Professor FENN. — Outlines of Systematic Theology. *Second half-year*. 1 Div., 3 And.
- A2. Professor EVANS. — Systematic Theology. The Distinctive Truths of Christianity.
- E3 <sup>1</sup>/<sub>2</sub>f. Professor DROWN. — Christian Ethics. *Half-course (first half-year)*. 1 Div.
- E3 <sup>1</sup>/<sub>2</sub>f. Professor DROWN. — Apologetics: Philosophy of Religion, and the Defence of the Christian Faith. *Half-course (second half-year)*.
- E4 <sup>1</sup>/<sub>2</sub>f. Professor DROWN. — Theology of Coleridge, Robertson, and Maurice. *Half-course (second half-year)*.
- A5 <sup>1</sup>/<sub>2</sub>f. Professor EVANS. — The Psychology of Religion. *Half-course (first half-year)*. 1 Div., 4 And.

- 7a <sup>1</sup>/<sub>2</sub>f. Professor EDWARD C. MOORE. — Philosophy of Religion. *Half-course* (first half-year). 4 Div., 2 B.U., 1 Gr., 8 Coll., 1 Sp.
- 7b <sup>1</sup>/<sub>2</sub>f. Professor EDWARD C. MOORE. — Philosophy of Religion. *Half-course* (second half-year). 4 Div., 1 B.U., 4 Gr., 10 Coll.
- 8 <sup>1</sup>/<sub>2</sub>f. Professor FENN. — Current Problems in Theology. *Half-course* (second half-year). 5 Div., 3 And., 1 N.T.I.
- 9 <sup>1</sup>/<sub>2</sub>f. Professor FENN. — History of the Christian Religion. *Half-course* (first half-year). 1 Div., 1 And.
- 20a <sup>1</sup>/<sub>2</sub>f. Professor EDWARD C. MOORE. — A Seminary. Modern Theology, especially as influenced by Ritschl: a survey of constructive work in Theology during the last thirty years. *Half-course* (first half-year). 5 Div., 1 And., 2 Gr.
- 20b <sup>1</sup>/<sub>2</sub>f. Professor EDWARD C. MOORE. — Philosophy of Religion. A Seminary. In 1917-18 three problems will be discussed: belief and knowledge; religion and morals; faith and worship. *Half-course* (second half-year). 3 Div., 3 And.
- 20c. Dr. GEORGE LAPIANA. — Philosophical and Theological Method of Thomas Aquinas. — Summa Theologica, Part I. — Summa Philosophica. Seminary course for seniors and advanced students. 2 Div.

## SOCIAL ETHICS

1. Asst. Professors FOERSTER and FORD. — Social Problems and Social Policy (Introductory Course). — Lectures, prescribed reading, thesis. 1 Gr., 27 Coll.
- 2 <sup>1</sup>/<sub>2</sub>f. Asst. Professor FORD. — Poor Relief. Lectures, prescribed reading, and field work. *Half-course* (second half-year). 2 Div., 7 Coll.
- 4 <sup>1</sup>/<sub>2</sub>f. Asst. Professor FOERSTER. — American Population Problems; Immigration and the Negro. — Lectures, prescribed reading, and a research. *Half-course* (first half-year). 1 Div.
- 44 <sup>1</sup>/<sub>2</sub>f. Professor EVANS. — Social Problems in the light of Christian Ethics. *Half-course* (second half-year).
- 5 <sup>1</sup>/<sub>2</sub>f. Asst. Professor FORD. — The Housing Problem. — Lectures, prescribed reading, and research. *Half-course* (first half-year). 1 Div., 4 Coll.
- 6 <sup>1</sup>/<sub>2</sub>f. Asst. Professor FOERSTER. — Unemployment and Related Problems of the Working Classes, with special reference to Social Insurance. — Lectures and prescribed reading. *Half-course* (second half-year). 1 Div., 5 Gr., 10 Coll.
- 7 <sup>1</sup>/<sub>2</sub>f. Asst. Professor FORD. — Rural Social Development. — Lectures, prescribed reading, and a thesis. *Half-course* (second half-year). 2 Gr., 5 Coll.
- 15 <sup>1</sup>/<sub>2</sub>f. Asst. Professor FOERSTER. — Recent Theories of Social Reform. *Half-course* (first half-year). 1 Div., 1 N.T.I., 1 Gr., 2 Coll.

- 18  $\frac{1}{2}$ f. Asst. Professor FOOTE. — Philanthropy in the Nineteenth Century. *Half-course (second half-year)*. 2 Div.
- 20b. Asst. Professor FORD. — Seminary. The Alcohol Problem. 1 Div.

## HOMILETICS AND PASTORAL CARE

- 1a  $\frac{1}{2}$ f. Asst. Professor FOOTE. — The Minister as Preacher. *Half-course (first half-year)*. 2 Div.
- E  $\frac{1}{2}$ f. Professor DROWN. — The Practical Use of Theological Material. A course of general introduction to theological study. *Half-course (first half-year)*.
2. Asst. Professor FOOTE. — Preaching. 7 And.
- E2  $\frac{1}{2}$ f. Professor HODGES. — The Homiletical Use of the English Bible. *Half-course (second half-year)*.
- E3  $\frac{1}{2}$ f. Professor HODGES. — The History and Use of the Book of Common Prayer. *Half-course (first half-year)*.
- A4a. Dr. CALKINS. — The Preacher's Use of the Materials of Theology. *Half-course (first half-course)*.
- E4  $\frac{1}{2}$ f. Professor HODGES. — Pastoral Care. *Half-course (second half-year)*.
- E5. Professor HODGES. — Preaching.
- 9 hf. Professor FOOTE. — History of Worship and Preaching. *Half-course*. 2 Div.
- A11. Dr. DAVISON. — The History and Development of Church Music.
- A12 hf. Dr. DAVISON. — The Conduct of Church Music. *Half-course*.
- A12 hf. Dr. DAVISON. — The Conduct of Church Music. *Half-course*.
- E. Mr. APPEL. — Choral Singing 1.
- E. Mr. APPEL. — Choral Singing 2.
- E. Mr. APPEL. — Choral Singing 3. Masterpieces of Sacred Music.
- E. Mr. APPEL. — Organ Playing.

## PUBLIC SPEAKING

1. Associate Professor WINTER and an assistant. — Training in Voice and Speech. — Preparatory to Course 2. 4 And.
- 2 hf. Associate Professor WINTER and an assistant. — Sermon Delivery, Scripture Reading, Oral Discussion. *Half-course :hroughout the year*. 5 And.
- E1. Associate Professor WINTER, assisted by Mr. APPEL. — Fundamentals of Speaking and Reading.
- E2. Associate Professor WINTER, assisted by Mr. APPEL. — Sermon Delivery and Scripture Reading.

During the past year there were added to the Andover-Harvard Library, 855 volumes and 788 pamphlets by purchase, and 341 volumes and 1,794 pamphlets by gift, making the total of books in the combined libraries 110,517 and of pamphlets 58,068. Of these additions there are credited to the Harvard Divinity School by purchase 406 volumes and 426 pamphlets, and by gift 88 volumes and 835 pamphlets, making the total of books belonging to the Harvard Divinity School, and contained in the Andover-Harvard Library, 43,192 and of pamphlets 16,713.

W. W. FENN, *Dean*.

## THE LAW SCHOOL

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — I have the honor to present my report upon the Law School for the academic year 1917-18.

Jens Iverson Westengard, Bemis Professor of International Law, died, after a brief illness, on September 17, 1918, just before the opening of the current school year. Professor Westengard was born in Chicago in 1871. He was educated in the public schools of Chicago and in the West Division High School. For some years he was engaged in real estate and banking business in Chicago. In 1895 he came as a student to the Harvard Law School, where he took high rank at once and graduated with honors in 1898. After five years' practice of law in Boston, during which he served the Law School as instructor, and later as assistant professor, he went to Siam (1903) as Assistant General Adviser to His Siamese Majesty's Government. He filled this place with conspicuous success and was made Acting General Adviser in 1905, General Adviser with the rank of Minister Plenipotentiary in 1909, and Judge of the Court of Appeals of Siam in 1911. He also received a Siamese title and four Siamese decorations. His relations with foreign governments while in the Siamese service brought him further honors. He was made Officer of the Legion of Honor (France), received the Grand Cross of the Order of Dannebrog from Denmark, and was appointed a member of the Permanent Arbitration Court at the Hague (1911). He had been designated by the Siamese Government to represent it at the anticipated Peace Conference on the conclusion of the war. In 1915 he returned to the Law School as Bemis Professor of International Law. His death when the maturity of his powers and his years of diplomatic experience were about to bear fruit in writing and teaching is indeed a loss.

Professor Wambaugh, Professor Hill and Professor Frankfurter, who were absent in the service of the Government during 1917-18, have leave of absence for the duration of the war. Also the vacancy made by the retirement of Professor Brannan remains unfilled. Thus the death of Professor Westengard made a serious gap in the teaching force. For the coming year the courses which he gave will be in charge of Professor Manley O. Hudson of the Law School

of the University of Missouri, who has been appointed lecturer for 1918-19. Professor Hudson graduated from the Harvard Law School with honors in 1910 and took his doctorate here with distinction in 1917. He had already gained a recognized position among the younger teachers of law in the United States. For the rest, the small number of students makes it possible to teach each course in a single division and to dispense with some special courses without impairing the regular curriculum. By imposing additional burdens on some of the professors, at the expense of the time they would give otherwise to research and writing, and by taking advantage of the Thayer Teaching Fellowship, which has proved a useful resource in this emergency, we are able to carry on the regular work of the School with no substantial diminution of its effectiveness. But the Law School has also to provide an instructor in military law for the S.A.T.C., and one of the faculty now does the work done formerly by the Student Advisers. This means that four of the nine teachers in the School during the year 1918-19 are doing and must do very much more than ought to be exacted of any teacher, and this, too, at a time when the pressure of legitimate demands to do public service is exceptionally strong. Some of them have been doing more than their normal quota of teaching work for several years, and it is clear that early provision must be made for an enlarged faculty.

As stated in my report for the school year 1916-17, substantially every student in the Law School who was not at the time in the National Guard or Naval Reserve, applied for admission to some one of the officers' training camps established by the Government in May, 1917. Not all who applied were physically eligible for admission, but nearly half of the student body was taken into these camps at once and before the opening of the school year 1917-18 over two-thirds of the student body were in the service. Many of those not accepted for the training camps or for enlistment returned to the school, but were afterwards taken in the draft, especially for limited service. Accordingly, the resolutions adopted by the faculty on April 24, 1917, set forth in my last report, were adapted to such cases. It was provided that third-year students, whose work was complete up to April 15, with such records as to give assurance that if they had remained in residence until the end of the school year they would have been recommended for the degree, should be recommended therefor in case they were taken into the military or naval service after that date. It was also provided that first and second-year students whose work was

Instructors	Studies and Text-books	Exercises per week	Number of students examined					
			1st year	2d year	3d year	Unclassified	Special	Out of Course
	<b>First Year</b>							
Prof. Scott . . . . .	Civil Procedure at Common Law. Scott's Cases on Civil Procedure . .	2	52					6
Prof. Williston . . . . .	Contracts. Williston's Cases on Contracts . . . . .	3	50		1			3
Prof. Beale . . . . .	Criminal Law. Beale's Cases on Criminal Law (3d ed.) . . . . .	1½	50	4		3		5
Prof. Beale . . . . .	Principles of Liability. Beale's Cases on Liability . . . . .	1½	50	1		1		4
Prof. Edward H. Warren	Property. Warren's Cases on Property . . . . .	2	50	2	1	2		5
Prof. Pound	Torts. Cases on Torts: Ames and Smith (Pound's ed.) . . . . .	2	49			5		5
Prof. Westengard }								
	<b>Second Year</b>							
Prof. Joseph Warren	Agency. Wambaugh's Cases on Agency . . . . .	2	18		5	4		3
Asst. Prof. Chafee . . . . .	Bills and Notes. Ames's Cases on Bills and Notes and Brannan's Negotiable Instruments Law (2d ed.) . . . . .	2	27			9		2
Prof. Pound . . . . .	Equity. Ames's Cases on Equity Jurisdiction, vol. 1 . . . . .	2	50	1	1	13		2
Prof. Edward H. Warren	Evidence. Thayer's Cases on Evidence (2d ed.) . . . . .	2	51	4	4	12		3
Asst. Prof. Chafee . . . . .	Insurance. Wambaugh's Cases on Insurance . . . . .	2			5	1		
Prof. Joseph Warren . . . . .	Property. Gray's Cases on Property, vol. 3; Warren's Cases on Wills and Administration . . . . .	2	51		3	13		2
Prof. Pound . . . . .	Public Utilities. Beale's Cases on Carriers (2d ed.). Wyman's Cases on Public Service Companies (3d ed.). Frankfurter's Cases under the Interstate Commerce Act . . . . .	2	6	18		8		
Prof. Williston . . . . .	Sales of Personal Property. Williston's Cases on Sales (2d ed.) . . . . .	2	49			10		4
Prof. Scott . . . . .	Trusts. Ames's Cases on Trusts (3d ed.); Scott's Cases on Resulting and Constructive Trusts . . . . .	2	45		8	11		2
Prof. Beale . . . . .	Damages. Beale's Cases on Damages (2d ed.) . . . . .	1	8	3	3	2		
Prof. Joseph Warren . . . . .	Persons. Smith's Cases on Persons . . . . .	1	12	8	8	2		

## Third Year

Prof. Beale . . . . .	Conflict of Laws. Beale's Cases on the Conflict of Laws . . . . .	2			56		2	1
Prof. Bates . . . . .	Constitutional Law. Wambaugh's Cases on Constitutional Law . . . . .	2			49			
Prof. Edward H. Warren . . . . .	Corporations. Warren's Cases on Private Corporations (2d ed.) . . . . .	2			57			
Asst. Prof. Chafee . . . . .	Equity. Ames's Cases on Equity Jurisdiction, vol. 1 (concluded) and vol. 2; Pound's Cases on Equitable Relief against Defamation and Injuries to Personality . . . . .	2			37	1	1	
Prof. Bates . . . . .	Partnership. Ames's Cases on Partnership . . . . .	2			7	1		
Prof. Westengard . . . . .	Property. Gray's Cases on Property, vols. 5, 6 (2d ed.) . . . . .	2			11		1	
Prof. Scott . . . . .	Suretyship and Mortgage. Ames's Cases on Suretyship. Wyman's Cases on Mortgages (revised ed.) . . . . .	2			41	3	2	
Prof. Westengard . . . . .	Admiralty. Ames's Cases on Admiralty . . . . .	1			11			
Prof. Williston . . . . .	Bankruptcy. Williston's Cases on Bankruptcy (2d ed.) . . . . .	1			36	4	1	1
Prof. Beale . . . . .	Municipal Corporations. Beale's Cases on Municipal Corporations . . . . .	1			28	2		1
Prof. Bates . . . . .	Restraint of Trade. Kales's Cases on Contracts and Combinations in Restraint of Trade . . . . .	1			2			1
Prof. Joseph Warren . . . . .	Quasi-Contracts. Thurston's Cases on Quasi-Contracts . . . . .	1			20	3		
<b>Graduate Courses</b>								
Prof. Westengard . . . . .	International Law. Scott's Cases on International Law . . . . .	2					1	3
Prof. Pound . . . . .	Jurisprudence . . . . .	2				1		3
Prof. Pound . . . . .	Roman Law. Pound's Readings in Roman Law (2d ed.) . . . . .	2						3
Prof. Westengard . . . . .	International Law Problems of the European War . . . . .	1				1		2
Prof. Scott . . . . .	Modern Developments in Procedural Law . . . . .	1				1		2

complete up to April 15, with such records as to give assurance that if they had remained to the end of the school year they would have received credit for a full year's work, if taken into the military or naval service after that date, should be permitted to return to the school in full and regular standing and upon taking successfully all the examinations of the succeeding year be permitted to count them also in lieu of those of the prior year. The laudable desire of every young man not eligible or taken for military or naval service to find some other mode of serving the country in time of war, left but the few, who were unable to find public employment, available to study law in an institution which admits college graduates only. But the great social importance of a body of well trained, liberally educated lawyers, which the conditions likely to follow the close of the war may well enhance rather than diminish, justifies thorough education of this remnant, abating no part of the standards which have evolved in the history of the School. So long as a respectable body of eligible, well trained, earnest students is at hand to be taught, the duty of the School to preserve the continuity of its work and keep itself ready to resume the orderly conduct of its work with unimpaired efficiency has seemed clear. Accordingly no attempt has been made to adapt the Law School course to the curriculum of the S.A.T.C. The number of graduates of colleges under the age of twenty-one eligible to admission to the Law School could only be small, the amount of professional instruction allowed by the exigencies of the prescribed curriculum was insufficient for the needs of regular students of law, and the faculty, with diminished numbers, and heavy added burdens could not undertake to provide for both. Hence the Law School has attempted no more than to afford instruction in military law to students enrolled in the S.A.T.C. under the auspices of the college. For the rest it has devoted its whole energies to keeping its regular work running in the regular way.

More than anywhere else the diminution of revenue due to the falling off in numbers of the student body is likely to be injurious to the library. The unique position which the library of Harvard Law School occupies among law libraries imposes a grave responsibility upon those who have it in charge in such times as the present. Rigid economy, an accumulated surplus, and the diminished publication of law books throughout the world incident to the war have thus far made it possible to continue the policy of buying everything that a complete cosmopolitan law library ought to have. But this policy can be adhered to during the coming year only by

incurring a considerable deficit, and the need of an endowment for the library, already urged in previous reports, will be even greater after the war.

No large gifts are to be reported. The times have not been propitious for such gifts and it has been felt that they ought not to be sought at a time when public calls for money were urgent and numerous. But friends and former students have come to the aid of the library when particular purchases, which available funds would not justify, were desirable and one in particular, who prefers not to be named, generously contributed money for the acquisition of a collection of portraits of American judges and lawyers. Mention should also be made of the generosity of Judge F. J. Swayze and William G. Thompson, Esq. in serving the School as lecturers for the year 1918-19 without stipend.

A table is appended showing the courses of study and instruction during the year 1917-18, the number of exercises weekly in each course, and the number of students who offered themselves for examination therein.

ROSCOE POUND, *Dean.*

## THE FACULTY OF MEDICINE

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — As Dean of the Faculty of Medicine I have the honor to present the following report for the year 1917-18.

It may be desirable in presenting the annual report to consider not only the condition of the School, but also to offer suggestions as to the probable needs of the School in the near future and measures to meet these. For this purpose a statement is necessary, not only of the teaching and research work of the current year at the School, but also some consideration of the organization both for teaching and for research now operative at the School.

The method of administration of the School, a slight modification of that which has hitherto been in operation, has proved its serviceableness.

The enlargement of the activities following the entrance into the new buildings and the new adjacent hospitals demanded a large Faculty somewhat unwieldy for careful consideration of the details of problems under discussion. A Board of Directorship was established, *i.e.*, the Administrative Board was established as a board to which all committees should report, itself responsible in all its actions to the Faculty, and informing the Faculty of all subjects under consideration, with meetings open to the inquiry of all Faculty members. This has proved an efficient means for deliberate investigation of all important questions and has not interfered with the democratic and independent character of the Faculty, important in preventing narrow and unprogressive proprietorship, which has too often injured the growth of medical institutions in this country and should be carefully guarded against.

*The Faculty Council*, — an elective committee representing all the Divisions of the teaching force, both the Faculty and non-Faculty members acting as a sub-committee reporting to the Administrative Board (and through them to the Faculty), — has proved its usefulness in considering all teaching problems. The other sub-committees are appointed by the Administrative Board reporting to it directly. Hasty and ill considered action on all questions is in this way prevented, with the added advantage of direct administration without the delay of constant meetings of a large Faculty.

*Committee of Professors.* — The Corporation needs at times the advice of experienced educators whose interests are closely and permanently identified with those of the School. They should individually feel a personal relation with the President, and opportunities should be freely given for as frequent informal conference with the President as may be desired. Their powers should be advisory and not executive, as experience in the administration of all medical schools has shown conclusively that whenever the government of a school has come under the direct control of a relatively small group of professors the result has been injurious.

*Dean.* — In a medical school of the size of the Harvard Medical School the Dean should be relieved of details as far as possible, which should be left to an Assistant Dean and Secretaries. He should, however, have a thorough knowledge of the working of each and all of the departments and be in close and intimate relation with all the professors and heads of departments. The Dean should inform himself accurately as to the condition of the financial resources of the School. Although these are controlled by the Corporation through the Treasurer or Business Director, the budget should be drawn up annually by the Dean, based upon reports from the heads of the Departments, who should present them at the end of each term in preparation for the ensuing year. The system of book-keeping at present employed has since its introduction worked satisfactorily. It has seemed also advisable for the Dean to inform himself of the expenditures and budget of the leading medical schools of the country. These have been cordially furnished by their respective Deans.

The Business Director has proved of invaluable assistance to the Dean. The supervision of the expenditures requires more than the ordinary experience of a Dean trained and engaged in medical activities. A dean devoting his whole time to a school who is also a man of medical prominence is not easily secured. The School, however, now needs for proper supervision the constant attention of trained intelligence, both in medical and administrative matters. Administrative ability may be secured by utilizing a Business Director acting under a Dean.

Efficient administration can be secured if the Dean is unable to devote the whole of his time to the duties of the deanship by detailing some of the work to the Secretary of the Faculty with enlarged powers. He could be given the title of Assistant Dean. The Dean could then devote his efforts to the larger policies of the School and its relation to and coöperation with the other schools


in developing medical education and medical research, as well as the general supervision of the School, and as a responsible aid to the President and Fellows.

*Faculty.* — The Faculty as the responsible advisory body to the Corporation needs careful selection in its membership. Its members should only be appointed for proved usefulness to the School and not merely as a reward for services to the head of one department. The Corporation in appointing professors and assistant professors to membership of the Faculty does well to ask the advice of members of the Committee of Full Professors, but the Faculty should be consulted in the appointment of all annual appointments. To prevent too personal selection of the annual appointments, non-faculty instructors and assistants, consideration of the names by the departments and divisions and the Faculty Council should be secured before recommendation by the Faculty. The Divisions serve a useful function as a control on too hasty action by the departments and the department heads in appointing assistants. The Divisions can be utilized by the Dean to promote a general democratic interest in the work of the departments and should be consulted from time to time by the Dean, who may at times with the heads of the Divisions call a meeting of the whole Division.

*Teaching Activities of the School.* — Although a survey of the teaching at the School gives a satisfactory exhibit of earnest and intelligent effort, medical men as a rule have had little training in the science of education. Absorbed as they are in a zeal for research, as all engaged in medicine should be, there is often a danger that the art of the best and most direct presentation of a subject with the proper selection of essentials and elimination of the unessentials may often not receive all the attention it deserves.

The Department of Education of Harvard University has been asked to consider the possibility of aiding the Medical School in this direction as it has so successfully aided the Department of Economics.

*Research.* — The funds of the School available for research are much larger than has hitherto been realized. This can serve as a basis for the formation of a well organized Research Institute, a coöperative part of the School but needing a different direction from that necessary for the management of the School curriculum or student affairs. The recently organized Department of Industrial Medicine can serve as a model for the organization of a Research Commission, supervising and directing the work of an important Research Institution.

The School of Hygiene, the School of Tropical Medicine, and the School of Industrial Medicine could be associated together under one direction. To this could be added the present Graduate School, including the Practitioners School, so active before the War and likely to be even more useful in the coming years after the War. Such activities properly organized can be made to develop a scientific centre here of unsurpassed importance enjoying unusual opportunities. It can justly look forward to future gifts, financial aid and foundations, for these would well be deserved. 

It is suggested, in view of the certain growth of the Harvard Medical School in this manner and the need of expansion, that the vacant land at the corner of Avenue Louis Pasteur be secured with a view to, later, the erection of such buildings as are sure to be needed in the next decade.

Coöperation would be possible with the research work soon to be needed in the School of Pharmacy and also that now carried on in the Forsyth Infirmary, and, perhaps, in the future needed for the Animal Hospital, if expanded to the study of diseases of domestic animals.

Of necessity the educational facilities of the Medical School have been actively engaged during the past year in the preparation of students for their duties as medical officers. The plan adopted in the summer of 1917 for continued instruction during the summer for the previous third-year class proved to be satisfactory, enabling the class to finish their studies in the February of 1918, four months earlier than if their idleness or undirected activity of a summer vacation had prevailed. The plan has been again followed for the summer of 1918. A few students, for financial reasons, were unable to take summer instruction and, as the courses are entirely clinical hospital exercises, satisfactory arrangements were made for these students through section-work assignments carried on in the spring months. Assigned hospital work not bearing school credit was made through the School for students of the second class who desired assistance in securing medical work. Some of the courses of the Summer School were also opened to students, as were obstetric courses. Provision was not made, however, for summer work for students who had finished their first year. Some plan should be devised whereby earnest students of mature age should be able to utilize to their professional advantage systematic summer work. A war-time plan to meet this need is at present under the consideration of a committee appointed by the American Medical Association at the suggestion of the Surgeon-General of the Army.

The work of the teaching force of the School has been made more laborious by the absence of a number of the teaching force and by the activities of many of the professors not called to war duties, but engaged in special government work. The valuable research work in France conducted by several of the professors of the Harvard Medical School is a source of gratification to their colleagues and may be regarded as testimony to the work of the Medical Faculty of the University.

An additional source of gratification may be found in the work of the various hospital units organized under the auspices of the School and largely manned by members of the teaching force. It will be remembered that before the entrance of America into this War a Harvard Medical School Unit was despatched for a short service at the American Ambulance Hospital Service under Professor Cushing and Assistant Professor Greenough. Later, at the request of the British Government, a fully equipped Hospital Unit was sent under the direction of Professor Nichols, succeeded by Drs. Cheever, Faulkner, Jones, and permanently by Dr. Hugh Cabot, who is now in charge. This Unit is now organized and manned for the duration of the War by members of the instructing force and graduates of the School, and has been in continuous operation since the autumn of 1915. The work has been materially aided by the indefatigable energy of Mr. Herbert H. White.

Organized at first under the Red Cross, but now in the service of the Government, are three Units largely manned by the staffs of the three large hospitals affiliated with the Harvard Medical School, viz., the Peter Bent Brigham Hospital, the Massachusetts General Hospital and the Boston City Hospital. From these Units, Professors Cushing, Cannon and Strong have been detached and assigned to special research work.

The relations of the Medical School with the important hospitals and medical institutions of Boston are most satisfactory.

The Children's and Infants' Hospitals have agreed that the chiefs of the medical and orthopedic services shall only be appointed after receiving nominations from the Corporation of Harvard University. The Board of Trustees of the Boston City Hospital have recently voted that it is their intention to make in the future appointments for one of the medical and one of the surgical services only after consultation with the Corporation of Harvard University.

The Boston Dispensary has also made such a provision for the head of the Children's Department. It would be glad to do so for

the medical service also. The same relation exists with the Women's Hospital and the Eye and Ear Infirmary, as well as the Lying-in Hospital. The understanding between the Peter Bent Brigham Hospital and the Massachusetts General Hospital is such that in practice appointments to service will be made only after a careful consideration of mutual interests. The result is that the Medical School has for teaching purposes sufficient opportunity for any future increase in clinical teaching that may be necessary, the limit being set more by the difficulty of securing a sufficient number of competent teachers than by any possible shortage of teaching hospital facilities.

It is desirable that in the near future a more thorough supervision of the health and social welfare of the students be made than is at present possible. Plans for this with the coöperation of Professor Lee of Harvard College were made. A medical adviser was appointed whose duties were to give medical advice to the students and make physical examination of the entering class, but owing to the need of medical officers for military service it was impossible to carry on the work.

It is desirable that in the future a survey of housing and feeding conditions be regularly made and in connection with the Student Aid Department the same careful oversight be conducted as is now thought desirable by all well organized corporations for their employees.

The work of the Director of Scholarships and Student Aid has been most satisfactory and the Medical Employment Bureau has performed excellent service for graduates, but owing to the War it has been impossible to find physicians to fill the many desirable vacant positions.

EDWARD H. BRADFORD, *Dean*.

## THE MEDICAL SCHOOL

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — As Dean of the Faculty of Medicine I have the honor to present the following report for the year 1917-18.

Although approximately one half of the teaching force of the Medical School has been absent on leave because of the national emergency the instruction given has not materially suffered owing to the willingness with which those instructors who did not engage in military activities undertook the instruction formerly given by the men who were thus absent from their teaching duties. On the other hand, research, at least in certain departments, has not been carried on with the usual activity because of the added teaching duties which devolved upon the teaching staff retaining active connection with the School. A brief summary of the activities of the various departments which follows will make clear to what extent the School has been able to maintain its normal grade of instruction and to what extent research has suffered by the decreased number of instructors.

*Anatomy.* — Although fourteen members of the staff have left for active war service and illness has limited the work of some who remained, a creditable year's progress may be reported. In gross anatomy, in the absence of Professor Warren and Dr. Begg, the burden of teaching has fallen heavily on Dr. Robert M. Green, who well earned his promotion to a Faculty Instructorship. He was assisted by Dr. Shapira who obtained a furlough of one year to take charge of the dental class, and by Mr. Ralph F. Shaner, who later was drafted and declined to apply for permission to continue his work at the School. Unfortunately, Dr. Shapira's furlough could not be extended. Dr. Cheever's valuable course in surgical anatomy is thoroughly appreciated by the students, more of whom elect it than can be admitted. It is highly desirable that arrangements be made so that Dr. Cheever may continue in charge of this course.

In microscopic anatomy most of the teaching was done by Professor Bremer, who served also five months with the American Red Cross in London, and by Dr. Boyden who conducted the newly extended course in comparative anatomy for dental students, made possible by the added year in their curriculum. With

Professor Bremer, Dr. Hammett has been studying the activities of the placenta. Dr. Boyden has published his interesting discovery of rudimentary gill-filaments in chick embryos (*American Journal of Anatomy*, Vol. 23, pp. 205-235, 1918). Mr. H. A. Murray, Jr., of Columbia University, has completed his study of the early stages of cardiac development, carried out chiefly in our laboratory, and the manuscript is ready for publication. Among other researches in progress are those of Mr. Wheeldon on the growth of the oesophagus and of Mr. G. H. Jackson on the formation of the ruminant type of aortic arches. Professors Kingsbury of Cornell University and Mangum of the University of North Carolina have again carried on investigations in the department, using the Minot Collection in valuable investigations. This collection has been somewhat enlarged, and has been kept in good order by Miss Herford, the artist for the department, who spent six months in Paris, drawing for the Red Cross Hospital.

*Physiology. Teaching.*—In accordance with the general policy of the Medical School the department has made every effort to avoid any reduction in the quality of work as a result of war stress. The absence of Professor Cannon and Dr. Forbes has made this effort impossible of perfect attainment. Fortunately a considerable teaching burden has been removed through the elimination of the Dental Class in physiology because of alterations in their schedule of studies. Fortunately, also, those members of the department upon whom the main burden of the medical teaching fell had the benefit of previous experience in the course, and were thus amply equipped for the task.

Certain changes in teaching methods have been made necessary by the rapid progress in physiology. It is no longer possible to maintain a perfect correlation between lectures and laboratory work without relinquishing the possibility of frequent alterations and improvements in the latter. To carry lectures and laboratory work hand in hand, demands that the entire class constantly perform the same experiments, beginning and finishing together as the lectures outline the subject. That this is an ideal arrangement no one can deny, but it is completely incompatible with the progress which every year of laboratory teaching should show. Under such a system the introduction of a new experiment requires purchase of apparatus for the entire class, and changes are at once so expensive as to be very infrequent. This difficulty has been overcome by the following arrangement:—After an initial period of six weeks devoted to general and simultaneous experience with

simple physiological apparatus, the class has been divided into four groups of twenty-four men each. These groups have worked in widely different fields, experiments in digestion, circulation, respiration, and renal secretion being in progress at the same time. A single instructor thus carries one type of experiment around the class, taking the four laboratory groups in turn. In this way Mr. R. C. Morris, added to the staff this year as Austin Teaching Fellow, developed and carried through the class a new and extremely valuable experiment in respiration which required eight days work for a single group. The apparatus necessary for this experiment permitted each man to learn the technique of alveolar air analysis, blood  $\text{CO}_2$  and  $\text{O}_2$  content, and to determine the basal metabolism of one of his fellows.

Physiological progress is the history of the triumph of one beautiful method over another which had seemed perfection. Clinical medicine and surgery watch for and utilize these methods as fast as they appear, and the teaching of physiology is indeed deficient if it is not equally vigorous in its grasp of new material. To teach upon such a basis makes larger demands upon the instructors than does a complete correlation of lectures and laboratory work. If a group of men are to be given elaborate experiments upon respiration before hearing lectures upon the subject, they require careful demonstrations in the technique, with general comment upon the subject, recommendations as to reading, and an oversight of progress which can be left to the lectures in the old system.

Under this policy the work in respiration has been entirely remodeled, and in circulation and kidney secretion alterations have been made up to the limit of the financial resources of the department. An additional appropriation of \$335 has been expended in this way and it would appear to have been employed profitably. The lectures have been reduced in number to five a week, conferences in small groups taking the place of the remaining one. These have not been marked by quizzes but rather by informal lectures with frequent questions upon the material recently covered. A written question occupying fifteen to twenty minutes preceded or concluded these hours. The lectures proper have covered the more difficult phases of the subject and have served more as a basis for intelligent constructive reading than as a picture of the scope of the subject.

*Research.* — Dr. Drinker has continued work upon the perfused bone marrow of the dog, accumulating material to be embodied in

papers upon the subject in the coming winter. Mr. C. C. Lund and Dr. K. R. Drinker have collaborated in this work. In active coöperation with the medical clinic of the Peter Bent Brigham Hospital, work has been carried out upon various phases of anemia resulting in the publications noted below. The collaboration of Miss Edna M. Tomkins and Mr. H. H. Brittingham has rendered these investigations successful.

Dr. Redfield has published his first paper upon the action of radium on the eggs of Nereis. In these ova he has found material reacting quantitatively and delicately to radium, to a degree not exhibited by any biological material heretofore available. He has continued to measure the effects of radium upon these eggs and has correlated the information so obtained with the effects of radium in producing hemolysis.

Papers embodying these later results will appear during the coming winter. Miss Elizabeth M. Bright has collaborated in this work.

Mr. Harold A. Bulger has completed and published an investigation upon the causes of delayed coagulability of the blood in anaphylactic shock.

Messrs. William Castle and Randolph A. Byers have succeeded in extracting hirudin from American leeches. This is a substance heretofore made in Germany for which there has been a ready market in American laboratories. It is the most efficient preventer of blood coagulation which we possess and has been made entirely from the foreign medicinal leech. These workers deserve great credit for their enterprise in finding a suitable American leech and in extracting the material in question.

Dr. Brenton R. Lutz and Dr. E. G. Martin have published papers giving the results of work accomplished in the laboratory in past years.

Finally, mention should be made of the publications and work of Professor Cannon, in England and France, during the past year. His earlier assignments upon active service dealt with the problem of shock, and upon this, publications have been issued. Work now in progress in France deals with the physiological analysis of the conditions arising from severe wounds of the chest. Professor Cannon has been honored with the appointment of Croonian Lecturer, and his lecture deals with work accomplished during his last year in the physiological laboratory at Harvard.

*Publications:* Drs. W. B. Cannon, E. M. Cowell, J. Fraser, and A. N. Hooper, "The Nature and Treatment of Wound Shock

and Allied Conditions." Report No. 2, Special Investigation Committee, Medical Research Committee (Great Britain). *Journal American Medical Association*, February 23, 1918, Vol. 70, pp. 520-535, and March 2, 1918, Vol. 70, pp. 607-621. Dr. W. B. Cannon, "Croonian Lecture—The Physiological Basis of Thirst." To be published in the *Proceedings of the Royal Society*, London. Drs. C. K. Drinker and H. H. Brittingham, "The Causes of the Reaction following Transfusion of Citrated Blood." Accepted for publication, *Archives of Internal Medicine*. Drs. J. P. O'Hare, H. H. Brittingham, and C. K. Drinker, "Observations upon Plasmokinesis in Patients with Chronic Nephritis and Uremia." Accepted for publication, *Archives of Internal Medicine*. Dr. A. C. Redfield and Mr. E. M. Bright, "A Quantitative Study of the Effect of Radium Radiations upon the Fertilization Membrane of Nereis." *American Journal of Physiology*, Vol. 45, p. 374, March, 1918. Dr. P. G. Stiles, "Recent Progress in Physiology." *Boston Medical and Surgical Journal*, Vol. 177, pp. 875-879. Drs. E. M. Tompkins, H. H. Brittingham, and C. K. Drinker, "The Basal Metabolism in Pernicious Anemia, with Especial Reference to the Effect of Transfusion." Accepted for publication, *Archives of Internal Medicine*. Dr. E. G. Martin, "Muscular Strength and Muscular Symmetry in Human Beings. I. In Children." *American Journal of Physiology*, Vol. 46, p. 67, May, 1918. Mr. B. R. Lutz, "Threshold Values in the Spinal Frog. I. Comparison of the Flexion Reflex and the Nerve-Muscle Response." *American Journal of Physiology*, Vol. 45, p. 507, March, 1918. Mr. B. R. Lutz, "Threshold Values in the Spinal Frog. II. Variations with Change of Temperature." *American Journal of Physiology*, Vol. 45, p. 515, March, 1918. Mr. H. A. Bulger, "Blood Coagulation and Anaphylactic Shock." Accepted for publication, *Journal of Infectious Diseases*.

*Comparative Physiology*. — Professor Porter has continued his investigations on wound shock. Papers have been published in the *Comptes Rendus*, July 23, 1917; *Proceedings of the Institute of Medicine of Chicago*, 1918, Vol. 2; and (with Miss E. Emerson) in the *Boston Medical and Surgical Journal*, August 22, 1918. The Atlantic Monthly Press has published a book by Dr. Porter, entitled "Shock at the Front."

*Biological Chemistry*. — The Department of Biological Chemistry has been handicapped by the absence of members of its staff during the year 1917-18. The loss of Dr. Bloor, who resigned toward the end of the year to take charge of the Department of

Biological Chemistry at the University of California, has further crippled the department. In spite of these difficulties, instruction was maintained at the usual high level. In the field of research rather less than usual has been accomplished.

*Bacteriology.* — By far the most interesting circumstance in the Department of Bacteriology was the diversion of the energies of the Department to the laboratory service of the Department of the Northeast, United States Army.

This began with the receipt by Professor Ernst of a commission as Major in the Medical Reserve Corps of the United States Army, in August, 1917. In January, Professor Ernest was ordered into active service, with headquarters at the Medical School, and during the remainder of the year has been engaged in doing the expert and emergency service for the different posts of the Northeastern Department. The services rendered are indicated in the following letter from the Surgeon-General's Office: "I am directed by the Surgeon-General to express to you his appreciation for the services of the Department of Bacteriology to the Department of the Northeast in the prevention and control of infectious diseases. These services have been rendered under the direction of Major Ernst, and are likely to be of increased value in the future. (signed) P. F. Straub, Colonel, Medical Corps."

It will be readily understood that this practical work has largely absorbed the energies of the active members of the department, so that research work has been very limited.

The teaching has gone on as usual. The required course was given with success, and such graduates as applied have, I think, received the kind and amount of instruction that they desired.

Associate Professor Wolbach also, of the Department of Pathology, has utilized much of the space and funds of this Department in the continuation of his studies on Rocky Mountain Spotted Fever, which seem to be approaching a conclusion.

Assistant Professor Floyd has assisted in the teaching, both of the required work and in the graduate courses; has continued the routine work of the Children's Hospital under Dr. Ernst's general direction, and, with the assistance of Miss Lyman and Miss Herick, has been engaged in a number of minor investigations.

Dr. Calvin G. Page has been of inestimable value in assisting in carrying on the routine work of the Department, and, also, the official work for the Government. It is difficult to see how this would have been satisfactorily completed without his faithful and untiring assistance. He has twice refused a commission and a

promise of a laboratory position elsewhere in order to stay here and support the work of the School, as well as that of the Government.

Dr. H. J. Perry assisted the department as usual in teaching, and has done no research — utilizing the facilities of the laboratory for certain routine examinations.

Dr. H. K. Boutwell and Dr. A. E. Steele assisted in the required instruction.

Dr. W. R. Redden was appointed Austin Teaching Fellow, and during October and November was engaged in assisting teaching. It was planned that he should continue in the Department and carry out certain researches, but he accepted a commission in the Naval Medical Reserve Corps, and his energies were transferred very shortly after the course closed.

On September 7, 1917, Dr. W. T. Bovie submitted a statement of investigations that he desired to carry out. As defined by himself, the problem upon which he is engaged is "The accumulation of facts concerning the biological effects of various kinds of radiation, particularly those which may be of therapeutic value in the treatment of cancer, —." The detailed statements of the researches of this work will, presumably, appear in the report of the Cancer Commission. In particular, Dr. Bovie has been readjusting the ultra-violet photomicrographic apparatus, and has just begun work with it, which we hope will be productive of fruitful results.

Dr. E. A. Cahill was given the privileges of the Department; — he representing the Massachusetts State Department of Animal Industry. His work consisted in a general way, of devising a method of treatment of hemorrhagic septicemia with bacterial vaccine, which seemed to be attended with considerable success. He carried out also a very large number of routine examinations and the facilities of the department appeared to be of great value. His work here ceased in March, for he then accepted a position with a commercial house in the West.

Langdon Frothingham, M.D.V., has continued work on the study of cultures of the tubercle bacillus of different strains. During December, representing the Department, he has furnished strains of human, bovine, avian tubercle bacilli to the Psychopathic Hospital and to Dr. Richard Austin of Chicago.

During December and January, Miss L. M. Hurd, who had taken the required course as a graduate student, was given certain facilities in the study of the preparation of vaccines and diagnostic

procedures. It is worthy of note that Miss Hurd did the entire work of the required course, and passed the examinations precisely as the medical students, and shared with one medical student the highest mark given.

Since February, Dr. Niwa, a surgeon of Kyoto, Japan, has been working in the laboratory, particularly on the subject of pneumococcus type identification. He has been of considerable service in this direction, and it is hoped that he will continue his work during the coming winter.

Until April, Dr. J. A. Turnbull has used the Laboratory in making extracts of bacteria — more particularly the streptococci, for the purpose of testing protein sensitization. Later he did a very large amount of work on the solubility of plant pollen. Exigencies of the war service have, however, obliged him to suspend this form of activity.

*Pathology.* — Research has suffered owing to the loss of the younger men of the department and the consequent burden of routine fallen upon the older members, all of whom are responsible for the work of the laboratories of the large hospitals in Boston. It is these hospitals that furnish the teaching, and much of the research material of the department.

It might be of interest to mention the hospital connections of the department. Dr. J. H. Wright is pathologist to the Massachusetts General Hospital and to the Huntington Memorial Hospital; Dr. F. B. Mallory is at the City Hospital; Dr. S. B. Wolbach at the Peter Bent Brigham Hospital and the Children's Hospital, and Dr. W. H. Cook is at the Long Island Hospital. In addition the department, by contract, looks after the pathological work of the following hospitals: — The Anna Jacques Hospital, Newburyport, Mass.; The Cambridge Hospital; The Beth Israel Hospital, Boston, and The St. Vincent Hospital, Worcester, Mass.

In the following is given a summary of the research and other activities of the members of the staff: Dr. E. W. Goodpasture, Instructor on leave of absence, has entered the Naval Medical Reserve Corps and Dr. F. L. Burnett has resigned to enter the Naval Medical Reserve Corps. R. R. Parker, Ph.D., of the Montana State Board of Entomology, was the guest of the department during November and December while engaged in a study of the fine anatomy of the spotted fever tick (*D. venustus*); material for which was provided by Dr. Wolbach. Dr. Councilman, with Dr. R. A. Lambert of Columbia University, has published a "Medical Report of the Rice Expedition to Brazil." This is a

report of the diseases seen and the general health conditions of the Amazon Valley as far as could be observed in a brief journey. It is hoped that this report may be the precursor of a more extensive detail study of the pathology of this most interesting region. With the assistance of Mr. L. W. Smith, Dr. Councilman is making a study of the cytoplasmic changes in senile testicular tissues in relation to tumor formation in dogs. Dr. J. H. Wright has worked on the following subjects:— The demonstration of spirochaetes by Burian's method; A simplified method of doing the Wasserman test, whereby the guinea pig serum and rabbit amboceptor are dispensed with; a new method of demonstrating *Treponema pallidum* in sections; with Dr. George R. Minot he has published "The Viscous Metamorphosis of the Blood Platelets." *Journal of Experimental Medicine*, Vol. 26. Dr. S. B. Wolbach has continued his studies of Rocky Mountain spotted fever. He has published a third report on the subject, *Journal of Medical Research*, Vol. 37, No. 3, completing the chain of evidence establishing the nature of the disease and its causative agent. The disease is one affecting the peripheral blood vessels. The causative agent, which is an exceedingly minute parasite, smaller than most bacteria, has been thoroughly studied in man and animals and in its intermediate host the tick. The parasite represents, in all probability, a new type and its discovery suggests possibilities in the investigation of some other diseases. Dr. N. C. Foot has been engaged in working on several phases of the spotted fever work with Dr. Wolbach; on therapeutic experiments; on immunological studies and on the behavior of the disease in rabbits. The rabbit was proved to be susceptible to the disease in this laboratory and may be an important factor in its transmission as has been recently suggested by Dr. R. R. Parker. With Dr. J. L. Morse, Dr. Wolbach has completed a paper (in press) on "Neuroblastoma Sympathicum," based on the material from the Children's Hospital. During the Spring Dr. Wolbach has coöperated with Dr. L. J. Henderson and associates in a study of rosy bread or "rope," a bacterial decomposition of bread which is thereby rendered unfit for food. Results of practical importance in the prevention of "rope" have been achieved and a report of this work is now in press. Dr. E. W. Goodpasture has published the following papers:— "An Acid Polychrome—Methylene Blue Solution for Routine and Special Staining." *Journal of the American Medical Association*, Vol. 69, p. 998. "A Contribution to the Study of Pancreas Intoxication." *Journal of Experimental Medicine*, Vol. 25, p. 227. A completed

paper, not published, is on "The Development of the Alpha and Beta cells of the Pancreas in Embryo Guinea Pigs." Dr. J. J. Keegan, Dr. F. A. Stevens, and Dr. J. T. Wearn have completed a study of a case of hemochromatosis with chemical analyses (in press).

*Comparative Pathology.* — The following report of the activities of the Department of Comparative Pathology for the past year is respectfully submitted for your consideration. The instruction in Parasitology for the second year class was given in the latter half of January as usual. The courses in Protozoölogy and Helminthology were taken by a group of students in Tropical Medicine. Dr. Fabyan has been occupied in a study of the transmutability of the tubercle bacillus from the bovine to the avian type; also in studies of tuberculosis in various animals. Dr. F. W. Goddard has been engaged in study and research for which he received the A.M. degree at the end of the year. A comparative study was made of the various types of intestinal flukes occurring among the inhabitants of the province of Shaohsing, China. The results of Dr. Goddard's work indicate that a number of forms which have heretofore been considered as different species are but variations of a single species, *Fasciolopsis buski*. Since this parasite produces a serious disease in the infected districts, any work which aids in its identification and classification is of value. Toward the close of the year work was begun on a problem concerned in the rearing of turkeys. In as much as it is necessary to rear an adequate number of birds and have them under constant observation, arrangements have been made to keep them in an enclosure between the wings of buildings E.

*Publications.* — "A Fatal Disease of the Japanese Waltzing Mouse caused by a sporebearing bacillus (*Bacillus piliformis*, N. Sp.)," by Dr. E. E. Tyzzer. "A Monostome of the genus *Collyriclum* occurring in the European Sparrow, with observations on the development of the ovum," by Dr. E. E. Tyzzer.

A thesis dealing with the classification of the streptococci, for which J. H. Brown received the degree of Doctor of Philosophy, is now being published as a monograph by the Rockefeller Institute.

*Pharmacology.* — Instruction in Pharmacology has been given as indicated in the reports of previous years. Dr. Hunt continued his investigations on the action of drugs upon blood vessels and published two papers in the *American Journal of Physiology* on "Vasodilator Reactions." As Consulting Pharmacologist Dr. Hunt has made many examinations of the preparations of arsph-

namine ("salvarsan") manufactured by the Massachusetts State Board of Health. Both he and Dr. Hale have made a number of examinations of drugs submitted to them by physicians and Boards of Health.

Dr. Hale was appointed Associate in Medicine at the Peter Bent Brigham Hospital and took charge of part of the out-patient work there during the first half of the year; the purpose of this work was to gain more practical experience in the therapeutic use of drugs as an aid in the teaching of pharmacology and prescription writing. He was also appointed Secretary to the Faculty of Medicine, May 1st. Dr. Hale has isolated a crystalline compound from Chaparro amargosa, a plant recently found to be of much value in the treatment of amoebic dysentery. A paper on this subject is in press.

*Preventive Medicine and Hygiene.* — The course in Preventive Medicine and Hygiene has heretofore been given to the students of the second-year class. This year, however, it was decided that the course be given in the third year of the medical curriculum. The course of instruction includes (1) lectures and demonstrations; (2) laboratory work; and (3) a sanitary survey; all of which is required.

A special post-graduate course was given in July to thirty-three Naval Reserve Force Medical Officers.

*"Ptomaine" Poisoning.* — The intensive study of food poisoning which was begun on May 1, 1917, is still going on. Between ten and fifteen laboratory workers have been engaged with the problems presented under the direct supervision of Assistant Professor Jacques Bronfenbrenner. This investigation is made possible by a gift of the National Cannery Association, and is conducted under the general supervision of the National Research Council. An experimental luncheon club has been organized in this connection, the members of which eat the canned goods under investigation, in order to determine the toxicity of the bacteria they contain.

*Harvard Infantile Paralysis Commission.* — Dr. Rosenau is a member of this Commission. Laboratory investigations on the mode of transmission of the disease have been continued by L. C. Havens and E. M. Craighead. Mr. Craighead discontinued his studies on January 1st to enter the U. S. Naval Reserve Force.

*U. S. Navy and Red Cross Work.* — Dr. Rosenau has accepted a commission in the U. S. Naval Reserve Force, and is at present director of the Laboratory of the Naval Hospital at Chelsea. He

is also a member of the Medical Advisory Committee of the Red Cross War Council. This duty has taken him to Washington on a number of occasions. He is also associated with various state, local, and national associations dealing with war relief.

The drinking water and tanks on the U. S. S. "Covington" and U. S. S. "Mt. Vernon" were examined by Dr. Rosenau and his assistants.

*The School of Public Health.* — The School formerly known as the School for Health Officers will in future bear the name of the School of Public Health of Harvard University and the Massachusetts Institute of Technology. The reason for this change is that some misapprehension has occurred concerning its object and scope, due to a mistaken idea that it is devoted solely to the training of administrative heads of boards and departments of health, whereas its aim is to prepare for public service health officials of various kinds. Sixteen students were registered in the School this year, five of whom received the Certificate of Public Health.

Owing to the great demand for trained laboratory workers, the School will offer during the summer a number of courses designed to train physicians, college graduates, and others having special qualifications, for laboratory and public health positions.

*Doctor of Public Health Degree.* — Dr. Leverett D. Bristol and Dr. John Weinzirl each received the Doctor of Public Health degree. The title of Dr. Bristol's thesis was "A Comparative Study of Infantile Paralysis, Animal Distemper, and Its Related Diseases"; Dr. Weinzirl's was "The Bacteriology of Canned Foods."

*The Cutter Lectures.* — The Cutter Lectures this year were given by Professors E. V. McCollum and F. S. Lee. Professor McCollum's subjects were as follows: "The Essentials of an Adequate Diet," "The Special Dietary Properties of our Natural Food-stuffs," and "The Dietary Habits of Man and Their Relation to Disease."

Professor Lee gave two lectures on "Industrial Efficiency and the War."

*Researches.* — Dr. J. P. Bill continued his studies in dust collection.

Dr. W. G. Webber continued his studies on colloids and ptomaines until May 1st, when he was called to active duty in the Army.

Dr. J. L. Bronfenbrenner, in addition to supervising the work on "ptomaine" poisoning, is conducting researches in immunity and the toxicity of the intestinal group of bacteria.

Dr. John Weinzirl is concluding his studies on the bacteriology of canned foods.

Dr. W. R. Redden, Assistant Surgeon, U. S. N. R. F., carried on researches on meningococcus carriers for the U. S. Navy Department pending the opening of the new laboratory at the Chelsea Naval Hospital.

*Coöperation with the State Department of Health.* — Dr. Rosenau continues to have supervisory charge of the Division of Biologic Laboratories of the State Department of Health. Both the Anti-toxin and Vaccine Laboratory, at Forest Hills, and the Wasserman Laboratory at the Harvard Medical School, were used for teaching purposes.

*Publications:* A list of publications from the Department in the past year follows: Dr. L. D. Bristol, "A Comparative Study of Infantile Paralysis, Animal Distemper, and its Related Diseases." Dr. G. B. Foster, "The Etiology of Common Colds." Mr. W. D. Frost, "Counting the Living Bacteria in Milk." Dr. W. R. Redden, "Meningococcus Carriers." Professor M. J. Rosenau, "Preventive Medicine and Hygiene." Third edition, D. Appleton and Company.

*Medicine.* — The war has caused many changes in the personnel of the Department of Medicine, but with readjustments instruction has continued essentially as in the previous year, a depleted teaching staff doubling up to do the work. The following members of the Department are in active service with the United States Army.

RICHARD C. CABOT,  
ELLIOTT P. JOSLIN,  
FRANCIS W. PEABODY,  
CHANNING FROTHINGHAM,  
WILLIAM H. ROBESY, Jr.  
JOSEPH H. PRATT,  
FRANCIS W. PALFREY,  
MARTIN J. ENGLISH,  
ALBERT A. HORNOR

WILLIAM R. OHLER,  
WILLARD S. PARKER,  
JAMES H. MEANS,  
FRANCIS M. RACKEMANN,  
GEORGE P. DENNY,  
FRANKLIN A. STEVENS,  
DAVID A. HALLER,  
JOSEPH C. AUB,  
PAUL D. WHITE.

In addition to their regular teaching work Dr. Cabot's class exercises have been given by Dr. Christian, Dr. Frothingham's instruction in therapeutics and prescription writing by Dr. Edsall and Dr. Robey's physical diagnosis has been taught by Dr. Minot. Dr. Peabody's course in clinical pathology was conducted by himself for half the time; then when he was called into service the assistants in this course completed it, Dr. Overlander having supervision of most of the work. A number of members of the hospital

staffs helped in the teaching work while at times, with depleted hospital staffs, student assistants while receiving instruction were able to carry on work of absent or lacking members of the hospital staffs. At periods of the past year, especially in the earlier months, it would have been difficult to have maintained adequate hospital service for our civilian population had it not been for medical students. Thus in many ways during the year was emphasized again the mutual interdependence of medical school and hospitals, the antithesis of independence of each other.

Investigation naturally was curtailed by the absence of many workers in war service and by the necessity of each remaining to do another's work in addition to his own. During the year 1917-18 a considerable number of publications appeared, many of which were based in the main on work before war conditions put a heavy drain on our man power.

From the Peter Bent Brigham Hospital group appeared from July 1, 1917, to July 1, 1918, the following publications:

H. L. Alexander, "Observations at the Peter Bent Brigham Hospital on Cases of Pneumonia in Relation to Types of Pneumococci and the Serum Treatment of Type 1 Cases." *Boston Medical and Surgical Journal*, 1917, clxxvii, 874. "A method of Producing a Rapid Immunity to Pneumococci." *Journal of Medical Research*, 1918, xxvii, 471. Byron D. Bowen, and Walter M. Boothby, "A Study of the Effect of Thyroid Medication on the Basal Metabolism, Renal Function, and Nitrogen Balance in Chronic Nephritis and in Hypothyroidism." *Journal of Urology*, 1917, i, 469. Henry A. Christian, "Heart Block in Acute Rheumatic Pericarditis." *Medicine and Surgery*, 1917, i, 911. "The Significance of Arrhythmias and Systolic Murmurs in Relation to Cardiac Efficiency." *Boston Medical and Surgical Journal*, 1917, clxxvii, 750. "The Nervous Symptoms of Polycythemia Vera." *American Journal of the Medical Sciences*, 1917, cliv, 547. "Some Observations on the Use of Diuretics in Nephritis." *Canadian Practitioner and Review*, July, 1917. "Chronic Nephritis, with a Discussion of Functional Tests." *International Clinics*, 1917, Vol. 111. "Visceral Disturbances in Patients with Cutaneous Lesions of the Erythema Group." *Journal of American Medical Association*, 1917, lxi, 325. "Tests for the Measurement of Renal Efficiency in Relation to Prognosis in Nephritis." *Pennsylvania Medical Journal*, 1918, xxi, 233. "Complete Heart-Block." *Medical Clinics of North America*, 1918, i, 813. "Partial Heart-Block." *Medical Clinics of North America*, 1918, i, 831. "Chronic

Myocarditis." *Medical Clinics of North America*, 1918, i, 853.

"Chronic Myocarditis: A Clinical Study." *Journal of American Medical Association*, 1918, lxx, 1909. R. Fitz, "Observations on Kidney Function in Diabetes Mellitus." *Archives of Internal Medicine*, 1917, xx, 809. F. T. H'Doubler, and S. B. Marlow, "A Case of Hemorrhage into the Optic-Nerve Sheaths as a Direct Extension from a Diffuse Intra-Meningeal Hemorrhage Caused by Rupture of Aneurysm of a Cerebral Artery." *Archives of Ophthalmology*, 1917, xlv, 533. Samuel A. Levine, "Auricular Fibrillation: Some Clinical Considerations." *American Journal of Medical Sciences*, 1917, xlv, 43. S. A. Levine, and C. L. Tranter, "Infarction of the Heart Simulating Acute Surgical Abdominal Conditions." *American Journal of Medical Sciences*, 1918, clv, 57. S. B. Marlow, and F. T. H'Doubler, "Aneurysm of the Abdominal Aorta with Rupture into the Duodenum." *American Journal of Medical Sciences*, 1918, clv, 540. C. W. McClure, "The Renal Function in Gout." *Archives of Internal Medicine*, 1917, xx, 641. C. W. McClure, and F. W. Peabody, "The Relation of the Vital Capacity of the Lungs to Clinical Condition of Patients with Heart Disease." *Journal of American Medical Association*, 1917, lxi, 1954. C. W. McClure, and J. H. Pratt, "A Study of Uric Acid in Gout." *Archives of Internal Medicine*, 1917, xx, 481. F. W. Peabody, "Cardiac Dyspnea." *American Journal of Medical Sciences*, 1918, clv, 100. F. W. Peabody, "Report on the Treatment of Myelogenous Leukemia with Radium." *Boston Medical and Surgical Journal*, 1917, clxxvii, 873. F. W. Peabody, "Clinical Studies on the Respiration. III. A Mechanical Factor in the Production of Dyspnoea in Patients with Cardiac Disease." *Archives of Internal Medicine*, 1917, xx, 433. F. W. Peabody, and J. A. Wentworth, "Clinical Studies on the Respiration. IV. The Vital Capacity of the Lungs and its Relation to Dyspnea." *Archives of Internal Medicine*, 1917, xx, 443. F. W. Peabody, J. A. Wentworth, and Bertha I. Barker, "Clinical Studies on the Respiration. V. The Basal Metabolism and the Minute-Volume of the Respiration of Patients with Cardiac Disease." *Archives of Internal Medicine*, 1917, xx, 468. I. C. Walker, "Studies on the Cause and the Treatment of Bronchial Asthma." *Journal of American Medical Association*, 1917, lxi, 363. "The Treatment of Patients with Bronchial Asthma with Subcutaneous Injections of the proteins to which they are Sensitive." *Journal of Medical Research*, 1917, xxxvi, 423. "The Treatment with Bacterial Vaccines of Bronchial Asthmatics who are not Sensitive to Pro-

teins. *Journal of Medical Research*, 1917, xxxvii, 51. I. C. Walker, "Causation of Eczema, Urticaria and Angioneurotic Edema by Proteins Other than those Derived from Food." *Journal of the American Medical Association*, 1918, lxx, 897. "The Cause and Treatment of Bronchial Asthma." *Medical Clinics of North America*, 1918, i, 1177. I. C. Walker, and June Adkinson, "The Sensitization of Hay Fever and Asthmatic Patients to the Proteins Found in the Different Parts of Plants and to the Individual Proteins of the Cereals." *Journal of Medical Research*, 1917, xxxvii, 277. "A Comparison Between the Cutaneous and the Intradermal Tests in the Sensitization of Asthmatic and Hay Fever Patients." *Journal of Medical Research*, 1917, xxxvii, 287. J. A. Wentworth, and C. W. McClure, "Studies on the Metabolism in Gout." *Archives of Internal Medicine*, 1918, xxi, 84. R. P. Wodehouse, "Immunochemical Studies of the Plant Proteins: Proteins of the Wheat Seed and Other Cereals." *American Journal of Botany*, 1917, iv, 417. R. P. Wodehouse, and J. M. D. Olmsted, "Preparation of Animal Food Proteins for Anaphylactic Tests." *Boston Medical and Surgical Journal*, 1917, clxxvii, 85. Warren T. Vaughan, "A Study of Paroxysmal Tachycardia, with Especial Reference to Tachycardia of Ventricular Origin." *Archives of Internal Medicine*, 1918, xxi, 381.

From the group working under the supervision of Professor Joslin at the Deaconess Hospital from July 1, 1917 to July 1, 1918, the following publications appeared:

E. P. Joslin, "The Treatment of Diabetes Mellitus." Second edition, published by Lea and Febiger, Philadelphia, 1918. "A Diabetic Manual for the Mutual Use of Doctor and Patient." Published by Lea and Febiger, Philadelphia, 1918. "Diabetes: The Results of Past Treatment and Future Problems." *Johns Hopkins Hospital Bulletin*, 1918, xxix, No. 326. E. P. Joslin, and A. A. Hornor, "A Study of Sixty-Two Cases of Diabetes of Fifteen or More Years' Duration." *American Journal of Medical Sciences*, 1918, clv, 47. E. P. Joslin, W. R. Bloor, and Horace Gray, "The Blood Lipoids in Diabetes." *Journal of American Medical Association*, 1917, lxix, 375. Horace Gray, "Lipoids in 131 Diabetic Bloods." *Boston Medical and Surgical Journal*, 1918, clxxviii, 16; clxxviii, 50; clxxviii, 91; clxxviii, 120; clxxviii, 156. Horace Gray, and K. M. Gray, "Normal Weight." *Boston Medical and Surgical Journal*, 1917, clxxvii, 894.

*Surgery.* — The work of the Department of Surgery during the school year, 1917-18, was somewhat interfered with by the fact

that two professors, two assistant professors, three instructors, three associates, six assistants, and one Austin Teaching Fellow were absent on active service, and the work of those that remained was very much increased by reason of war conditions.

The work of the second year, beginning with Surgical Pathology in January, and the regular lectures, clinics and recitations, was carried on as usual. Courses in Surgical Technic and Surgical Therapeutics, in sections, were also given, with volunteer assistants.

During the third year the regular course of lectures, clinics, and recitations was carried on as usual by the members of the Department who were still in Boston.

The surgical "dresser" service at the hospitals, given during the course of the third year, was very much interfered with by the shortage of junior surgeons at the hospitals, and the instruction of the students during this period of hospital service undoubtedly suffered under these conditions.

The usual exercises in genito-urinary surgery were given by Assistant Professor Thorndike, and the section work was carried on as usual.

The work of the fourth year class in surgery was affected somewhat by the shortage of junior surgeons at the hospitals but resident surgeons have been appointed at the Massachusetts General Hospital for the ensuing year, and fourth year instruction should go on as usual.

The work of the Laboratory of Surgical Research has been very much curtailed by the war and by lack of funds. Dr. William C. Quinby has been in charge of the laboratory, and the usual course in operative surgery was given to the second year class, but investigation of surgical problems has come almost to a standstill. During the year thirty-seven articles on surgical subjects were published by the members of the department, and listed in the University Gazette.

The course in Surgical Pathology, given for many years most successfully by Dr. E. H. Nichols, has been given up, but the work will be carried on by the Department of Pathology and by lectures and clinical instruction. While it will not be quite as satisfactory as previously, students will not lack all necessary instruction.

It has been the endeavor of the Surgical Department to pay particular attention, both by lecture and by clinical work, to problems which have arisen from the war. At all of the hospitals special attention has been given, in appropriate cases, to the newer treatment of shock, and to the chlorine treatment of fresh

wounds and infections, with demonstrations to the students of newer war methods.

**Publications:** — J. D. Barney, "A Simple Method of performing External Perineal Urethrotomy." *Surgery, Gynaecology and Obstetrics*, February, 1918, pp. 232-233. J. B. Blake, "Recurrent Dislocation of the Inferior Maxillary." *Annals of Surgery*; also, *Transactions of American Surgical Association*, 1918; *International Clinics*, Vol. 2 (28th series). C. H. Bucholz, "Arthrodesis of the Shoulder Joint." *The American Journal of Orthopedic Surgery*, Vol. xvi, No. 6, pp. 364-372, June, 1918. F. J. Cotton, and W. F. Cotting, "A Brief Report of Fractures of the Skull and Spine from the Fourth Surgical Service." *Boston Medical and Surgical Journal*, Oct. 11, 1917. H. Cushing, "Tumors of the Nervus Acusticus and the Syndrome of the Cerebellopontile Angle." Philadelphia, W. B. Saunders Co., 1917. "Notes on Penetrating Wounds of the Brain." *British Medical Journal*, 1918, Vol. 1, pp. 221-226. "A Study of a Series of Wounds involving the Brain and its Enveloping Structures." *British Journal of Surgery*, 1918, Vol. 5, pp. 558-684. John Duff, Jr., and F. J. Cotton, "Wire-banding for Fractures: A new tool." *Surgery, Gynaecology and Obstetrics*, November, 1917. T. W. Harmer, "Spina bifida and Allied Malformations. Based on an Operative Experience of 34 cases." *Boston Medical and Surgical Journal*, clxxvii, No. 11, pp. 353-357, Sept. 13, 1917. "Appendicitis." *Boston Medical and Surgical Journal*, clxxvi, No. 5, pp. 165-170, February 1, 1917. "Tendon Suture." *Boston Medical and Surgical Journal*, clxxvii, No. 23, pp. 808-810. December 6, 1917. G. W. Holmes, "The Examination of the Heart and Great Vessels by Means of the X-ray." *Medical Clinics of North America*, January, 1918. "X-rays in Phthisis." *Boston Medical and Surgical Journal*, January 17, 1918. "Intra-cranial Aerocele." *American Journal of Roentgenology*. (In print.) "A case of Multiple Abscesses of the Lung with Spontaneous Cure." *American Journal of Roentgenology*, July, 1918, Vol. 5 (new series). Arthur T. Legg, "The Early Orthopedic Treatment of Infantile Paralysis." *Maine Medical Journal*, May, 1918. "Remarks on the Etiology of the Flattening of the Upper Femoral Epiphysis." *American Journal of Orthopedic Surgery*, July, 1918. R. W. Lovett, "Orthopedic Problems in the After-treatment of Infantile Paralysis." *American Journal of Orthopedic Surgery*, October, 1917. "A Plea for a more Fundamental Method in Medical Teaching." *Journal of the American Medical Association*, April 13, 1918. "After-care of Poliomyelitis

in New York State." *New York State Department of Health*, April, 1918. "The Problem of the Reconstruction and Re-education of the Disabled Soldier." Mellon Lecture, Pittsburgh. F. B. Lund, "The Surgery of the War and the Part played therein by American Surgeons." *Surgery, Gynaecology and Obstetrics*, December, 1917. "The Place of Local Anesthesia in Surgery." *American Journal of Surgery*, January, 1918. R. B. Osgood, and E. C. Bull, "Operative Treatment of Tuberculosis of the Knee-joint in Adults." *Journal of the American Medical Association*, lxi, No. 14, Oct. 6, 1917, p. 1162. "Adaptation of Thomas and Jones Splints to obtain Fixation of Arm in abducted position while Patient is Ambulatory." *British Medical Journal*, October 13, 1917, p. 477. R. B. Osgood, "Manual of Splints and Appliances for the Medical Department of the United States Army, 1917." Compiled by the following Committee in compliance with an order from Major-General Pershing:—Lieut.-Col. William L. Keller, Major Robert B. Osgood, Major Alexander Lambert, Major Joseph Blake, Capt. W. S. Baer, Capt. Nathaniel Allison. "The Orthopaedic Centres of Great Britain and their American Medical Officers." *American Journal of Orthopedic Surgery*, xvi, No. 2, February, 1918. F. L. Richardson, "Anaesthesia in Prostatectomy." *Urologic and Cutaneous Review*, Vol. 21, No. 11, November, 1917. "Some Suggestions for the Dietetic, Pre-operative and After-care of Surgical Cases." *American Journal of Surgery*, Vol. 32, No. 4, April, 1918. G. G. Smith, "Bladder Disturbances due to Nerve Lesions." *Journal of the American Medical Association*, October 20, 1917, xlix, pp. 1323-1325. "Spinal Anesthesia in Genito-urinary Surgery." *Urologic and Cutaneous Review*. (In print.) C. B. Walker, and H. Cushing, "Distortions of the Visual Fields in Cases of Brain Tumor." (Fifth paper.) "Chiasmal Lesions, with especial reference to Homonymous Hemianopsia with Hypophyseal Tumor." *Archives of Ophthalmology*, 1918, xlvii, pp. 119-145. W. Whittemore, "The Surgical Treatment of Empyemia." *Boston Medical and Surgical Journal*, clxxvii, No. 11, March 14, 1918. E. L. Young, "Urinary Frequency." *Urologic and Cutaneous Review*, May, 1918.

*Pediatrics*.—Because several members of the Department of Pediatrics have gone into the Army or Red Cross Work, and others have been occupied with other work in connection with the War, it has been more difficult than in the past to carry on the Department during the past year. It can be safely said, however, that the teaching of the students has not fallen off at all, and in fact it

may have been better in some ways because more of the instruction has been given by the older men in the Department.

A number of investigations are still being carried on by the Department in spite of the interruption consequent to the War.

Dr. Talbot in conjunction with the Nutrition Laboratory of the Laboratory of the Carnegie Institution of Washington has investigated the metabolism of some of those children whose metabolism has been studied in the past. In this later group of children the effect of growth on the metabolism of the same child at different periods has also been studied.

In conjunction with Drs. Folin and Dennis at the Massachusetts General Hospital he is carrying on a study of the lactose in human milk and the non-protein composition of human milk in various pathological conditions, as well as a comparative study of the milk of different animals.

Dr. Talbot and Mr. Bosworth are making a comparative study of breast milk and cow's milk, and are investigating acidosis and acetonuria, and are continuing their study of infant feeding, devoting special attention to the metabolism of the mineral constituents of foods and the digestion and absorption of fats.

Dr. Sylvester is carrying on the same investigations on which he was at work last year, as are Drs. Hill and Grover.

*Dermatology.* — The work of the dermatological department has been affected by the war in that it has been hard to concentrate on this branch of medicine in time of war. Dr. Blaisdell has begun work upon a textbook unique in dermatology — that is, one based on the "case system." Dr. White has published the papers: 1, "The Treatment of Eczema in Childhood," *Boston Medical and Surgical Journal*, Vol. 178, p. 5. 2, "Alopecia Prenatura," Harvard number of *Medical Clinics of North America*, Saunders and Co., March, 1918. 3, "International Clinics. Reports of Rare or unusual cases," two separate articles. Dr. Blaisdell has published, "Sporotrichosis: a clinical and histopathological report of the first case to be published in New England," *Journal of Cutaneous Diseases*, Vol. 35, p. 452.

*Syphilology.* — Teaching has been the chief activity of the Department of Syphilology during the past year. Didactic and clinical lectures were given the third year class in addition to section work. There were several fourth year students who took the elective work. Clinical instruction, lectures, and demonstrations were given practically throughout the year to Army and Navy medical officers. For three months intensive training was given

groups of medical officers detailed by the Surgeon-General of the Army for a combined course in syphilis, genito-urinary surgery and dermatology.

Work was also done with Public Health Officers and nurses who were to engage in medical or social work in or about army cantonments, camps, etc. The scarcity of assistants at the Hospital has prevented our devoting the desired time to research work. Dr. Lloyd reported a case of chancre of the eyelid in the *Boston Medical and Surgical Journal*, and has continued a study of the effect of syphilis and treatment on the kidney. Dr. C. Morton Smith is collecting facts on certain changes in the molar teeth with reference to congenital syphilis and has read papers before several medical societies and spoken at medical clubs on the treatment and prophylaxis of syphilis. He also has read a paper on the teaching of syphilis in medical schools and hospitals and before the Section of Dermatology of the American Medical Association. This paper was published in the *Journal of Cutaneous Diseases* within the current year.

Work that was started while Dr. Post was connected with the Department on the cases of interstitial keratitis in conjunction with the Eye and Ear Infirmary has been continued throughout the year. The department also continued the work with the Lying-in Hospital on syphilitic pregnant women, and are making investigations on certain phenomena seen in the administration of arsphenamine. A study of spinal fluids in syphilis has been interrupted by the lack of assistants, due to the war.

The department has continued teaching syphilis of the mouth to the third year class of the Dental School as usual.

#### DISEASES OF THE NERVOUS SYSTEM

A. *Neuropathology and Psychiatry*. — The publications of Neuropathology and Psychiatry have been this year more numerous than in the past, inasmuch as several researches of some years' duration came to a conclusion.

The case book on "Neurosyphilis: Modern Systematic Diagnosis and Treatment" was brought out and is being used in several neurological clinics of the country for its contained case material, which on account of its combination of Danvers State Hospital autopsied material and Psychopathic Hospital clinical material with modern arsphenamine therapy, is more broadly representative of pathological, psychiatric and neurological aspects of syphilis than other works. This book was published as Mono-

graph No. 2 of the Psychopathic Hospital. Monograph No. 3 of the Psychopathic Hospital is now in press, and is the result of personal work by the Professor of Neuropathology to the extent of something like 800 hours; the topic is Shell Shock and Other Neuropsychiatric Problems presented in a series of 589 cases from the war literature, 1917-18. This book like the book on Neurosyphilis is founded on the Law School case system principle to which Dr. Cannon called attention some years ago for its values in medicine and to which Dr. R. C. Cabot gave concrete form in his Case Book in Medicine.

Other monographs are far advanced in preparation, notably one upon social psychiatry, a new topic based upon the combination of medical and social work at the Psychopathic Hospital. This new branch of inquiry bears the same relations to the older psychiatry and sociology as the also relatively new topic of social psychology bears to psychology and sociology. The book has been constructed on the same case principle as the books on Neurosyphilis and Shell Shock.

The service stars in the department of Neuropathology and Psychiatry are numerous:—

Dr. E. E. Southard is going into the Chemical Warfare Service; Dr. James B. Ayer and Dr. Harry C. Solomon into the head surgery division of the Surgeon-General's office; Dr. H. I. Gosline in the general medical service of the army, as also Dr. Douglas A. Thom. Drs. L. G. Lowrey, A. Myerson, A. P. Noyes and C. E. Sandoz have all been engaged in teaching the military surgeons in the courses in nervous and mental diseases given under the auspices of the Surgeon-General's Office at the Psychopathic Hospital.

B. *Neurology*. — The work of the Department of Neurology has been seriously handicapped by the fact that two of its members are in the Government service: Dr. George Clymer has been with the Massachusetts General Hospital Unit in France since its formation, about a year ago. More recently, Dr. James B. Ayer has also entered the service and is at present stationed in the Neuro-Surgical Laboratory of the Johns Hopkins Medical School, where he is giving his time to research in relation particularly to meningitis and means of treatment through irrigation of the subarachnoid spaces.

Dr. Sidney A. Lord, who was formerly connected with the Department, has been reappointed to a subordinate teaching position.

The investigations of the Department have been continued along essentially the same lines as outlined last year. Further data of

value have been collected in relation to the treatment of the late syphilitic diseases, which especially attack the nervous system. This is a continuation of the work inaugurated and for several years carried on by Dr. Ayer.

Instruction to members of the Medical Reserve Corps on the diagnosis of nervous disease has been given and will be continued in connection with the Orthopedic Department.

*Publications:* Charles A. McDonald, "Two Cases of Pernicious Anemia in the same Family." *Rhode Island Medical Journal*, July, 1918. James B. Ayer, "Treatment of Nerve Syphilis." *Rhode Island Medical Journal*, January, 1918. "Focal Transverse Lesions of the Spinal Cord." *Medical Clinics of North America*, Boston number, 1918. E. W. Taylor, "Suggestions regarding a Modified Psychoanalysis." *Journal of Abnormal Psychology*, February, 1918.

*Gynaecology.* — Following is the report of the work done by the Gynaecological Department during the year 1917-18.

Dr. W. P. Graves has revised his textbook on Gynaecology, adding about two hundred pages of new material, and seventy-five original drawings. He has published an article entitled, "Ovarian Organotherapy," appearing in the *Medical Clinics of North America* for March. He has also written an article entitled, "The New Psychology Applied to the Neuroses of Gynaecology," to appear in the September number of the *American Journal of Obstetrics*.

Dr. Robert M. Green has been making a study of the treatment of pelvic abscess at the City Hospital, and has in preparation a clinical paper on the subject.

Dr. John T. Williams has written an article entitled, "The Internal Secretion of the Ovary," published in the *Interstate Medical Journal*. Dr. Williams is at present engaged in an inquiry into the health of women workers in war industries.

Dr. Frank A. Pemberton has written an article entitled, "Hemorrhage from the Uterus in the Non-Pregnant Woman" appearing in the *Boston Medical and Surgical Journal*. Also an article entitled, "A Cyst at the Ureteral Orifice: Treatment," to be published in the *Urologic and Cutaneous Review*, St. Louis.

Dr. Frederick L. Good has been doing original work studying placental extract in cases of vomiting of pregnancy and has a paper in preparation.

Dr. Mason with Dr. Konrad has made two rather important contributions which should be included. They are as follows: "Two-Stage Operation for Carcinoma of the Pregnant Uterus

under *Paravertebral Anaesthesia*." *Surgery, Gynaecology and Obstetrics*, July, 1918; and "Paravertebral Anaesthesia with a Report of Cases," read at the meeting of the American Medical Association in Chicago, June 14, 1918. To be published later.

*Obstetrics*. — The report of the activities of the Obstetrics Department might well include the war record. At present the following men are in the Medical Reserve Corps on active duty and have been granted leave of absence from the Medical School: Dr. J. R. Torbert; Dr. N. R. Mason, and Dr. F. C. Irving. In addition, Dr. R. L. DeNormandie and Dr. F. S. Kellogg are at present in France in charge of a Red Cross Obstetrical Unit, also on leave of absence. Dr. R. M. Green resigned from the Lying-in Hospital in the last year, which automatically removes him from the Obstetrical Department. Dr. D. L. Jackson and Dr. R. S. Titus have been appointed to fill vacancies caused by the absence of the other men; and Dr. D. J. Bristol, Jr., has been appointed Alumni Assistant for the coming year. There seem to be no publications from the Department this year and no research work has been done. In our present shorthanded condition we have all we can do to keep up the standard of the teaching.

*Orthopedic Surgery*. — The activities of the Orthopedic Department for the year 1917-18 have not been diminished by the very great depletion of the department. On the first of July there were only two men in the department who were not in some way connected with the Army. Five men are on leave of absence, two being in Europe and the others in service in this country. In spite of this the teaching has not been reduced below the amount of previous years, and this has necessarily meant a very considerable burden to the men who have remained behind.

In the third year the lectures, given largely by Professor Lovett, were radically changed over the previous ones given, and the plan of fundamental teaching advocated was adopted. Instead of talking of separate diseases, demonstrating them and allowing the students to deduce principles from this, the method was adopted of instructing them in the fundamentals of the anatomy, physiology and pathology of various large groups of diseases, for instance, considering diseases of the joints as a group, diseases of the neuromuscular mechanism, diseases of the bones, etc. — this on the ground that a review of the normal function and structure of an organ or system was desirable before proceeding to the study of its disordered function.

The fourth year curriculum has been improved. More time and attention have been given to it, and the work made more practical than it has been in previous years.

The greatest departure from former work has been in the teaching of orthopedic surgery to surgeons detailed here by the Surgeon-General of the United States Army for intensive instruction in military orthopedic surgery. They have been detailed to the Harvard Graduate School, but the situation is so anomalous that they perhaps are best considered under the head of the Department of Orthopedic Surgery. There have been four courses varying from four weeks to two months in length. The morning instruction has been at the Massachusetts General Hospital, orthopedic department, and at the Harvard Medical School, and the afternoon instruction at the Children's Hospital and the Harvard Medical School. In addition to these, institutions coöperating with the department have been the Boston City Hospital, the Peter Bent Brigham Hospital, the Massachusetts Hospital School at Canton and the Peabody Home at Hyde Park. Up to the first of July the courses averaged practically thirty men, so that something over a hundred men have passed through the Orthopedic Department of the Medical School. The Orthopedic Department is under great indebtedness to the Department of Anatomy for coöperation in this teaching and in furnishing material. Whatever the department has asked for in the way of assistance, hospital facilities, clinical material or anything to do with the course, it has been met everywhere by the most willing and cheerful coöperation.

*Ophthalmology.* — The Department of Ophthalmology has sent out the following list of publications: Myles Standish, "The Socialization of the Practice of Medicine." *Boston Medical and Surgical Journal*, Vol. 178, No. 25, pp. 837-846. "A New Instrument for Deep Sewing." *Boston Medical and Surgical Journal*, Vol. 68, pp. 707-708, March 3, 1917. "Neurologic Perimetry and a Method of Imitating Daylight with Electric Illumination." *Transactions of the Section on Ophthalmology of the American Medical Association*, 1917, pp. 189-202. "Quantative Perimetry. Practical Devices and Errors." *Archives of Ophthalmology*, Vol. 156, No. 6, pp. 537-561, 1917. C. B. Walker, "Chiasmal Lesions, with especial reference to Homonymous Hemianopsia with Hypophyseal Tumor." *Archives of Ophthalmology*, Vol. 47, No. 2, pp. 119-145, 1918. (With Professor Harvey Cushing.)

*Otology.* — The regular work of this Department has been carried on throughout the year though necessarily handicapped by the

absence of members in war service. Coöperative teaching with the Department of Laryngology has been continued with much mutual benefit. A new anatomical case capable of holding about 300 specimens has been purchased and many new and instructive temporal bone dissections have been prepared. Dr. Faunce, and Dr. Dunlap of the China Medical School, have completed a set of drawings which should be of material assistance in teaching embryology and the special anatomy of the ear. Professor Crockett, head of the department and a member of the Red Cross Service, has been absent six months, the Department being in charge of Dr. Calvin Faunce. No papers of scientific importance have been written by the members of the department during the present year.

*Laryngology.* — During the year 1917-18 instruction in Laryngology was carried out in the same way as in the previous year, except that the work of Dr. Mosher, who has been away on active service, was done by other members of the Department. As the fourth class began their school year in June, half of the class completed their work during the summer. Each member of the class in a small section was occupied during the forenoons of two weeks in the clinic of the Massachusetts General Hospital, in practical instruction for two hours, followed for an hour each day by some special demonstration or exercise, either at the hospital or in co-operation with the Departments of Ophthalmology or Otology. This is the second year in which instruction in these special subjects has been required in the fourth year. The arrangement has proved satisfactory and is a great improvement over the former schedule in which several special subjects were crowded into the third year.

The third class has had eight lectures to the class as a whole, which serve as introductions to the later clinical work.

Owing to the press of work, especially in the hospital, due to a much diminished staff, the Department has not been able to do any research nor undertake anything outside of the routine instruction of the undergraduates.

The following publications have appeared: Dr. J. L. Goodale, "Hay Fever and Hay Asthma. Masser and Kelly's Practical Treatment." Vol. 4, President's Address, *Transactions American Laryngological Association*. Dr. H. P. Mosher, "Memorial to Dr. W. J. Dodd." *Boston Medical and Surgical Journal*, Vol. 176, p. 107. "The Use of Paraffin as a Packing for the Radical Cavity." *Transactions of the American Otological Society*, 1917.

*Warren Anatomical Museum.* — Owing to war conditions, new activities in the Museum have been restricted, and the expense curtailed as much as possible.

About a year ago the Museum servant was drafted and he was replaced by a man on half time. This has thrown greatly increased work on the Secretary, Miss Piper, who has been most untiring in the performance of her various duties.

In addition to the regular school work, numerous demonstrations have been given to the military medical reserve officers, in the course arranged for them by the orthopedic and surgical departments. In this connection the Bradford collection of lantern slides has proved to be of the greatest value. A number were selected from them by the Government to be copied for general use for instruction. They have also been loaned for lectures on hygiene given at the public schools.

Great interest has been taken in having the men of the army properly fitted with shoes. Photographs have been taken, for the Government, of specimens in the Museum, to illustrate lectures showing the ill effects which may arise if proper shoes are not used.

An instrument of historical value has been added to the collection, from the European war. It is the broken stethoscope used by the late Dr. George P. Howe, Harvard, 1904, who was the first graduate from the School and the first New England physician to be killed at the front, while serving as a volunteer in the British Medical Service. It was broken when he was shot.

It is to be regretted that a number of specimens from the war, which were to have been given to the Museum by Colonel Cushing, were lost when the ship which was bringing them, was torpedoed.

A number of instruments used especially for the throat, have been donated by Dr. J. W. Farlow, for the old instrument collection.

A good many valuable specimens have been added to the pathological collection, many through the kindness of Professor Wolbach, from the Peter Bent Brigham Hospital and the Children's Hospital.

On account of the high price of glass-ware and chemicals used in preserving specimens, every effort has been made to restrict their use to only what is absolutely necessary to prevent loss or deterioration of the old ones, and for rare and valuable additions.

So far the collection has not suffered in any way, and unless something happens very unexpectedly, precaution has been taken so that the work can be carried on as at present.

Although the Museum has remained closed to the general public during the past year, access to it could be obtained upon application to the Curator during the usual hours. A large number of interested persons as well as members of the profession and students availed themselves of the opportunity.

*Scholarships.* — Dr. Franklin Dexter, Director of Scholarships, reports that scholarships and loans were made to students, as follows:

	Medical	Dental	Total
Number of applicants for first-year scholarships . . . . .	27	..	27
Number of applicants for other scholarships . . . . .	64	..	64
Number of students interviewed . . . . .	142	9	151
Number of interviews . . . . .	325	18	343
Number of letters received and answered . . . . .	183	8	191
Total number of students aided (exclusive of scholarships) . . . . .	25	2	27
Number to whom money was loaned . . . . .	23	2	25
Number to whom money was given . . . . .	2	..	2
Amount of money loaned . . . . .	\$2,025	\$110	\$2,135
Amount of money given . . . . .	250	..	250
Sources from which money was obtained:			
Private Fund . . . . .	1,950	110	2,060
Anonymous Gifts . . . . .	325	..	325
Amount of money refunded . . . . .	1,075	30	1,105

*Appointments Bureau.* — The following is a list of the kind of positions which have been desired.

Summer Work . . . . .	8	Surgery . . . . .	1
Salaried positions . . . . .	6	Assistantship . . . . .	1
Temporary salaried positions . .	3	Hospital Positions . . . . .	3
Locum Tenens . . . . .	2	Student Aid . . . . .	2
Laboratory Work . . . . .	4	Not specified . . . . .	4
Industrial Medicine . . . . .	1	Total . . . . .	35

The following represents the kind of positions offered: —

Pathology . . . . .	10	Administrative . . . . .	2
Camps . . . . .	11	Physiology . . . . .	3
Hospitals . . . . .	5	Grenfell . . . . .	1
Eye, Ear, etc. . . . .	2	Assistant . . . . .	5
Surgery . . . . .	5	Resident . . . . .	6
Locum Tenens . . . . .	2	War . . . . .	2
Industrial . . . . .	7	Navy . . . . .	1
Laboratory . . . . .	5	Health Officer . . . . .	2
General Practice . . . . .	6	Companion . . . . .	2
School Physician . . . . .	4	Teaching . . . . .	4
Student Aid . . . . .	7	Total . . . . .	92

Statistics prove that requests come largely from the student body; of the 35 men who applied, 71 per cent were students. This fact may be explained by the scarcity of doctors brought on by war conditions.

*Library.* — Owing to the war and its consequent curtailment of purchases, the library this year shows smaller gains than in previous years. Especially is this so in regard to foreign periodicals. On the other hand the statistics indicate considerable increase. This is explained by the fact that the Director of the University Library has asked all departmental libraries to adopt the new rules recently made by the College Library for counting volumes and pamphlets. Hitherto a collection of several pamphlets bound together in one volume was counted as one volume. Now each shall be counted as so many pamphlets. Likewise a pamphlet bound shall be treated as a volume. This has necessitated a recount. Usually the number of the previous year has been taken and the accessions for the present year added. The figures given in the following table are in accordance, as nearly as possible, with the new rules.

The number of accessions is as follows: —

Purchased:	
Central Library.....	115
Anatomical Library.....	4
Bowditch Library.....	9
Purchased by Bowditch Fund.....	4
Purchased by the Department of Anatomy.....	1
Purchased by Surgical Library Book Fund.....	10
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Total number of volumes purchased.....	143
By gift.....	224
By exchange.....	200
Added by binding periodicals.....	357
Transferred from Harvard College Library.....	80
<hr/>	
	861
Pamphlets.....	2,529
Pamphlets transferred from Harvard College Library....	900
<hr/>	
	3,429
New periodicals purchased.....	5
New periodicals, gift.....	5
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Total number of accessions:	
Volumes.....	1,004
Pamphlets.....	3,429

These accessions added to those of previous years make a total for all of the Libraries as follows: —

	1916-17	1917-18	
Volumes .....	29,409	32,096	
Pamphlets .....	51,694	55,123	
	<hr/>	<hr/>	
	81,103	87,219	
Current periodicals .....			277
Current periodicals actually received...			10

The number of books, periodicals and pamphlets drawn out by readers from the different libraries is as follows: —

	1914-15	1915-16	1916-17	1917-18
Central Library .....	1,125	2,505	2,846	2,935
Anatomical Library .....	550	208	327	286
Bowditch Library .....	1,235	1,012	1,240	1,542
Bacteriological Library .....	1,198	300	200	215

The attendance of readers has been:

#### CENTRAL LIBRARY

	Day	Evening	Total
1914-15 .....	6,600	1,800	8,400
1915-16 .....	10,130	3,078	13,208
1916-17 .....	11,716	2,854	14,570
1917-18 .....	12,789	2,381	15,160

*Public Lectures.* — It has been the policy of the Committee from the beginning, to draw the speakers from among the teachers of the Medical School. To some individuals this has seemed to be a narrow policy, and, as the Committee desired it, several lectures were invited to take part, who did not come under this heading.

Arrangements were made for seventeen lectures, beginning on Sunday afternoon, January 6th, and ending Sunday afternoon, April 28th.

It cannot be said that the attendance was inspiring, nor that the subjects chosen by the persons invited to lecture proved to be very attractive.

Experience has led the committee to feel very strongly that these public lectures should be on medical subjects of a simple character, and designed to help people in every day life.

Out of the seventeen lectures, only seven attracted an audience of over one hundred people. The average attendance was ninety-five, as contrasted with an average of one hundred and sixty-six the preceding year.

There are, presumably two explanations, for the diminution in attendance:

1. That the subjects were poorly chosen.
2. That the minds of the people are so taken up with the occurrences of the war that it is quite impossible to concentrate on anything else.

*Cancer Commission.* — The principal work of the Cancer Commission was carried on during the year 1917-18 as before the war, with the exception of those branches of research which had to be abandoned because of the absence of certain working members of the Commission on war service.

The absence of Dr. Henry A. Lyman made necessary the abandonment of the work in chemistry.

Dr. E. W. Goodpasture resigned early in 1918, but his work was carried on by Dr. James Homer Wright.

Dr. Duane continued his investigations on the subject of radium and X-rays, and gave most of his time to the construction and installation of a high power X-ray plant, intended ultimately for therapeutic purposes, but set up experimentally in the Jefferson Laboratory in Cambridge. Dr. Duane also superintended the preparation of radium for use in the hospital and attended regularly at the clinics to supervise the application of radium for treatment of diseases.

Dr. Bovie continued his measurements of the effects of light rays of different kinds on tissue, and has produced a number of communications for publication in the *Journal of Medical Research* and the *American Journal of Botany*.

The work of Dr. C. C. Little in genetics had to be abandoned owing to Dr. Little's absence on war service.

Mr. Arthur Adams, formerly Treasurer of the Commission, was also away on active service in the Navy, and Mr. Roger Pierce was appointed Treasurer in his place.

During the year from October 1, 1917, to October 1, 1918, the free diagnosis service, provided by the Cancer Commission for physicians and hospitals in Massachusetts, which was undertaken with the coöperation of the Health Commissioner of Massachusetts, provided 533 specimens for examination, 251 of these specimens came from 24 smaller hospitals in Massachusetts, while 280 were sent in by 114 different practitioners of medicine.

The service resulted in the accumulation of interesting material for study, and there was little evidence of inadequate or improper surgery, so far as could be judged from the specimens received.

The work at the Huntington Hospital continued during the year 1917-18 with a considerable increase in the number of new patients received for treatment. There were 767 new patients during the year as compared with 571 in 1916-17, and 508 in the year before.

Dr. Francis Peabody was away on war service, and his work on the cases of leukemia was taken on by Dr. George R. Minot and Dr. Gerald Blake.

The nose and throat clinic was continued during the year, and Dr. J. Payson Clark volunteered for this service after Dr. D. Crosby Greene and Dr. Harry A. Barnes had gone into the Army Medical Corps.

There were thirty deaths in the hospital in the fiscal year from July 1, 1917 to July 1, 1918, and autopsies were obtained in twenty-one of these cases.

Two student House Officers from the third year class were continued on service through the year. These men are given their board and lodging in return for the amount of work they are able to do for patients in the hospital in the morning and evening.

E. H. BRADFORD.

## THE SCHOOL OF TROPICAL MEDICINE

TO THE PRESIDENT OF HARVARD UNIVERSITY:—

SIR,—As Acting Director of the School of Tropical Medicine I have the honor to present the fifth annual report for the academic year 1917-18.

*Investigations.* During the present year, the activities of the School have been adapted wherever possible to contribute either directly or indirectly toward the prosecution of the war. The outstanding achievement in this direction is the demonstration by Dr. Richard P. Strong, Director of the School, of the mode of transmission of trench fever, the preliminary reports of which have already been received. This is considered to be a new disease of man which made its appearance at the beginning of the European war; it has gradually increased in severity, incapacitating a relatively large number of troops. Dr. Strong since the entry of America into the war has been on duty in France in charge of the section of infectious diseases. During the present winter Dr. Strong perfected arrangements on a large scale for a thorough investigation of the mode of transmission of trench fever; a staff of well known physicians was secured as well as a group of over sixty volunteers from the enlisted personnel of the United States army. These volunteers submitted themselves for experimental purposes; they were subdivided into several groups some serving as controls and others being infected in various ways with trench fever. The results demonstrated that the disease is transmitted by the louse.

My own investigations have consisted in a continuance of the work commenced last summer with Dr. McIver on the treatment of amoebic dysentery with chaparro amargosa. An active principle was obtained from this drug which gave reactions characteristic of the glucosides. This product proved to be effective in the treatment of four cases of amoebic dysentery. Specimens of the crude drug were turned over to Dr. Worth Hale of the Department of Pharmacology. Dr. Hale has obtained final proof of the presence of a new glucoside. Apparently this is the first instance in which a glucoside has been used in medicine as an antiparasitic remedy.

Dr. S. C. Brooks has had charge of the biophysical study of radiant energy. His work has consisted chiefly of the study of the

effect of violet light and also ultraviolet radiation on immunity reactions. This has been approached chiefly through the study of the destruction by light of "complement," one of the constituents of normal blood serum which is essential for many of the phenomena of immunity. For these studies, the standard biological methods of studying immunity have proven inadequate in certain respects and Dr. Brooks has developed several new and ingenious methods of experimentation. The following results have been obtained.

1. The photo-destruction of complement, unlike most biological reactions, proceeds at a rate and to an extent determined by the conditions during radiation only, and therefore is an especially favorable reaction for a quantitative biophysical study of radiant energy. The temperature during radiation has no appreciable influence on the photo-destruction of complement, the reaction, like most light processes, e. g., photography, taking place equally well at the freezing point or at body temperature.

2. Whenever haemolysis takes place, even though it is very slight in extent, the haemoglobin which is liberated effectively protects the complement from further destruction. This protection occurs in the test tube and might conceivably be of value in the animal body.

3. Contrary to the opinion of Henri, Liebermann, Chick, Phelps, Arrhenius, and others, Dr. Brooks has discovered facts indicating that the process of haemolysis is not a monomolecular reaction. In arriving at this conclusion, it has been necessary to coördinate the essential facts from a considerable mass of undigested literature containing many misleading conclusions.

4. An improved method has been developed for the titration of complement. Such improvements are very desirable for the present methods of determining the strength of complement are notoriously inadequate.

These results are now in the process of preparation for publication by Dr. Brooks.

Dr. Ragle has been interested in certain aspects of the etiology of pellagra. The work of several American investigators, primarily Goldberger, indicates that pellagra is due in part at least to a deficiency in diet. According to the views of some Austro-Hungarian investigators (Raubitscheck and Horbaczewski) pellagra is caused primarily by the action of sunlight in conjunction with certain normal foodstuffs, notably corn. This theory is especially attractive since it affords an explanation for some of the toxic symptoms occurring in pellagrins.

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Neither one of these views of dietary deficiency or of the action of sunlight seems adequate of itself to explain all cases or all of the features of pellagra; accordingly it has seemed very desirable to determine if possible whether both of these factors may not play a rôle in the etiology of pellagra. For this year's work Dr. Ragle has confined his attention to the effect of light on experimentals maintained principally on a diet of corn. Thus far the results do not in any sense confirm the essential details of the European investigators. However the data do not by any means exclude the possibility that sunlight may be an important factor and the work will be continued throughout the present summer.

No expeditions have been undertaken during the present year on account of the shortage of medical men for service here at home and in the national army.

*Publications.* The following is a list of publications to date for the current year:

- "Trench Fever." Report of Commission of Medical Research Committee, American Red Cross. By Richard P. Strong, Major, M.R.C.; Homer F. Swift, Major, M.R.C.; Eugene L. Opie, Major, M.R.C.; Ward J. Macneal, Captain, M.R.C.; Walter Baetjer, Captain, M.R.C.; A. M. Pappenheimer, Captain, M.R.C.; A. D. Peacock, Captain, R.A.M.C.(T.); David Rapport, First Lieutenant, M.C. Prepared for publication by Richard P. Strong. Printed at the Oxford University Press.
- "Medical Report of the Rice Expedition to Brazil." By W. T. Councilman and R. A. Lambert.
- "Biological Investigations of Tropical Sunlight," *Journal of Medical Research*, 1918, vol. xxxviii, No. 3, including "The Study of Tropical Sunlight with special reference to Photodynamic Action," by A. W. Sellards; "The Action of Extreme Ultraviolet of Tropical Sunlight on the Complementing Power of Serum," by W. T. Bovie; "Complement Destruction as a Measure of the Effects of Radiation," by S. C. Brooks.
- "The Treatment of Amoebic Dysentery with Chaparro Amargosa," (*Castela Nicholsoni*). By A. W. Sellards and M. A. McIver. *Journal of Pharmacology and Experimental Therapeutics*, 1918, vol. xi.
- "Amoebic Dysentery and Associated Conditions." By A. W. Sellards. *The Medical Clinics of North America*, 1918, vol. i, No. 4.
- "The Clinical Significance of the Irregular Distribution of Various Cells and Parasites in the Blood Stream and the Production of Abortive Leukaemic Changes and of Splenomegaly in the *Macacus Rhesus*." By A. W. Sellards and W. A. Baetjer. *Johns Hopkins Hospital Bulletin*, 1918., vol. xxix.

It is expected that before September 1, 1918, additional publications will appear by Dr. Brooks and Dr. Ragle.

*Instruction.* In the summer of 1917 the School offered a short special course in tropical diseases for medical officers in the United States Navy. This was directed and conducted largely by Dr. Tyzzer. During the winter the usual course of instruction in tropical medicine was offered. There were but three students who came especially for these courses. One of these men, Dr. Hurd, was called toward the end of the school year for special work in tropical diseases in Palestine.

During the present year the Acting Director has given more time than formerly to undergraduate instruction. In my opinion it is distinctly desirable to bring the work of the Tropical School into closer touch with the undergraduate work of the Medical School. However, it is obvious that any extensive modifications or developments cannot be undertaken at present. In this connection the important feature of a permanent station in the tropics has been under careful consideration; it seems to me that this station should preferably be organized on such a basis that it would include not only tropical medicine but pathology, bacteriology, and other fields of medicine. To attain ideal conditions it should also include the subjects of botany, zoölogy, entomology, chemistry, and others of the general sciences.

ANDREW WATSON SELLARDS.

## WORK OF THE HARVARD UNIT, R. A. M. C.

*from October 22, 1917 to October 22, 1918*

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — I have the honor to submit herewith report of the first complete year of the Harvard unit under my command:

On October 22, 1917, under orders from the War Office, I took over the command of this hospital from Lt. Col. Sir Allan Perry who had been commanding officer since the beginning in 1915. At the outset I would call attention to the highly peculiar way in which this unit is constituted. The officers and nursing staff come from America. Most of the officers are American citizens though some are Canadian or British subjects. More than half of the nursing staff, though coming from America and resident in the United States, are Canadian and therefore British subjects. The entire personnel, under which is included warrant officers, non-commissioned officers and men, constituting the working personnel of the hospital, are British subjects. While therefore this is an Anglo-Saxon unit, it is neither a British nor an American unit and this fact involves certain difficulties of administration and many possible sources of friction though carrying with it the very important consideration of being a practical experiment in Anglo-Saxon unity. Any consideration of the work of this unit must take note of these facts since in one form or another they are constantly presenting themselves in matters of practical adjustment. To the best of my knowledge the experiment is a unique one.

Throughout the year the question of the continuation of the unit in its present form has in one way or another periodically come up. At the time of taking over command it was definitely decided that continuance in the British service was desirable because of the undoubted value of this unit as "a going concern," the very definite shortage of medical officers of the Royal Army Medical Corps and the evidence given by the chief surgeon of the American forces that the American officers under my command were not urgently required by the American service. These considerations seemed to me after careful discussion with my associate, Mr. H. H. White, to be conclusive as far as it was possible to look

into the future. During the winter months, December, January and February, it was abundantly clear that the strain upon the forward bases of the British Army in France would, during the spring of 1918, be very heavy and that there was likely to be presented an opportunity for service of the first importance, in fact quite beyond anything that had previously occurred. This estimate was entirely borne out by the facts which will be later referred to. With the great increase of the American forces in France during the summer of 1918, it was deemed wise to again go over the reasons for the maintenance of this unit with the view to seeing whether any alteration of the conditions had occurred which would warrant a change. From all the testimony to me available it appears that the supply of medical officers with the American forces is very largely in excess of the relative number available for the British Army. It further appears that a very considerable number of American officers are not employed, constituting perhaps the best evidence that there is no shortage. Precisely the reverse condition exists with the British. The casualties in the Royal Army Medical Corps, chiefly among officers attached to battalions and field ambulances, has been very heavy and there exists a very definite shortage of medical officers fit for work under service conditions. From a purely military point of view there can be no doubt that the maintenance of this unit on the British lines of communication is of greater importance today than at any previous period. What may be referred to as sentimental considerations had also to be taken into account. They are of two kinds. There is a very natural and highly commendable desire on the part of every American to seek service in this War under his own flag now that America is committed heart and soul to the undertaking. Against this may be set the also sentimental consideration of carrying through to completion a piece of work undertaken when it was quite out of the question for these officers to serve under their own flag and when it appeared so doubtful whether or not America would be involved that it seemed wise to the University to ask the War Office to grant their representatives honorary commissions for the duration of the War. These commissions were granted and accepted by all the officers now serving under my command. It is not believed that the War Office would have placed serious obstacles in the way of the acceptance of the resignations of these officers even though the obligation entered into was a binding one. On the other hand the nature of this obligation cannot be and has not been overlooked in any decisions which have

been come to. Finally the evidence which appears to me conclusive that the end of the War cannot be long postponed has been a determining factor in the decision to see this experiment through to a finish on its present lines.

At the time when I took it over from Colonel Perry the most important considerations appeared to me to be those concerned with the improvement of the conditions making for comfort and ease of operation. Every endeavor was used, and with considerable success, to hasten the progress of hutting the hospital, a most important factor in reducing the incidence of sickness in the Staff under winter conditions. Particular attention was paid to the condition of the quarters occupied by officers and nursing staff to the end that they be kept warmer and more in conformity to the conditions under which these people are in the habit of living. The coal allowance being considerably less than appeared to me essential to reasonable comfort was largely supplemented from private funds. The result which I believe to be partly due to the trouble taken in this direction, though somewhat to the less severity of the weather, was a very striking diminution in the incidence of sickness, which was throughout the winter entirely trivial. In contrast to this should be noted the high incidence of the previous winter which at certain periods amounted to over twenty-five per cent. For similar reasons much attention was paid to the question of recreation both for the staff and for the personnel. It was not believed that physical or military drill was well suited to this organization and for it was substituted ground hockey which together with a more liberal policy in regard to entertainments and dancing is believed to have had a beneficial effect. The end in view was to have the physical condition as well as the morale of the unit at the highest possible level in anticipation of the expected pressure in the spring.

The exceedingly mild and favorable weather conditions of the winter of 1917-18 made it possible for the Germans to begin their offensive nearly a month earlier than had hitherto been possible in the western portion of the battle front. During the months of March, April and part of May, this hospital was subject to as great a strain as can well be imagined. Particularly during March and April the pressure for available beds was tremendous and on various occasions we were considerably over our highest crisis expansion. The accidental vacancy of some neighboring buildings made it possible for us to take casualties considerably in excess of those supposed to be handled by such units. It was to me a source

of the greatest gratification that during this pressure the physical condition and stamina of my staff was quite up to the highest expectations. It would be difficult to subject people to greater pressure but all stood the strain and the the work was done in a spirit and with an efficiency which cannot be too highly praised.

During the months of June and July it was believed that military considerations might lead to the evacuation of this district as a hospital area and there was little or no work. It was of course not possible to say where these hospitals would be sent, if indeed they were moved at all, but it seemed of the first importance that during such periods opportunities should be obtained for detailing officers and nursing sisters to other units particularly in forward areas for detached duty. This policy had been initiated in the summer of 1917 but had not been pushed and amounted only to the sending of "surgical teams" to casualty clearing stations during periods of active operations. By taking advantage of every opportunity which offered and considerably aided by the presence of Major G. C. Shattuck, R. A. M. C., as Chief Medical Officer of a British clearing station opportunities were obtained to detail officers for purely medical work in forward areas, to supply a bacteriologist to one of the armies, and to furnish clearing stations and hospital trains with nursing sisters for general duty apart from those who could be sent forward with "surgical teams." Somewhat later opportunity was obtained to send officers for duty with field ambulances, a service which is particularly suited to the younger officers who are not available as medical or surgical specialists and are really needed for advance field work. In this way it has been possible to provide a more considerable variety of opportunity and an experience quite different from that available at the base. The arrangement has the advantage that the period of detachment is relatively short and therefore available for a considerable number of people and that in case of the development of unusual conditions officers and nursing sisters can be recalled. Some nice questions of judgment have arisen as to the extent to which these details for detached duty could be carried out without subjecting the remaining members of the staff to undue or unreasonable strain. In the considerations involved by the detachment of members of the nursing staff I have been governed entirely by the judgment of my matron, Mrs. Hagar, who has proved a person not only of unusual efficiency but of sound judgment. The details of officers have been pushed to the greatest possible extent and were it not for the unusual capacity for work which those not on detail have

exhibited I should have been dangerously short-handed at various periods. As it is, important casualties from illness might leave me in an awkward situation. These chances it has been thought wise to take in view of the importance of providing varied opportunity and thereby as far as possible avoiding the blighting effects of continued routine work and monotony. That such effects cannot be entirely avoided goes without saying but the effort to keep them at a minimum is believed to have been successful. At the present time this unit has been for more than two months operating under conditions of continuous and at times heavy pressure. The staff has been as short and at times shorter than was entirely consistent with safety. Nevertheless the character of the work has been well maintained. Arrivals of reinforcements to my nursing staff in September and October have been sufficient to relieve the strain on this department upon which it falls most heavily. I see no reason for believing that the efficiency will not be up to the high standard set for them by their own performance in March and April, 1918.

When it became evident that we were increasingly regarded as an integral part of the British Medical Service it appeared proper to request that the same financial advantages which temporary British officers are allowed be extended to officers of this unit. This matter was initiated by me and taken up by Mr. White during his last visit in June, 1918, with the result that complete uniformity of practice has now been established in regard to officers of this unit who have agreed to serve for the duration of the War. The same situation obtains in regard to the nursing staff but the pay and allowances of the British nursing sisters and staff nurses is considerably below that paid to the Colonial and American nurses of similar grades. This gave rise to a tendency among our nurses to resign at such periods as were not inconvenient to us and take service with the Canadians and to a much less extent with the Americans. In order to level this financial obstacle, I appealed to the American Red Cross, an organization which has been exceedingly helpful to us in many ways though of course under no obligation to render us any assistance. They promptly agreed to make up the difference between British and American pay. An amount of money sufficient to pay this balance is now deposited quarterly with Mr. Robert Grant, Jr., of Higginson & Company, where it is at the disposal of the members of my nursing staff. With these two adjustments of pay and allowances, the situation of the unit in this regard appears to me to be eminently satisfactory.

Of the strictly medical and surgical operations of the hospital it is not possible at the present time to speak in the detail that would be of interest. A discussion of methods as developed here, of relative numbers and of mortality, will at some future time be not only interesting but desirable. At the moment, however, only certain very general questions can properly be discussed.

The activities of any particular hospital organization must be developed very largely in relation to the peculiarities of its medical and surgical staff. It has not of course been possible to select the members of this staff with a view to giving a balanced unit as was possible with the American units organized after April, 1917. For this reason it did not seem to me feasible to utilize this unit for the purpose of experimental or essentially scientific work. On the other hand, our experience here, as a result of the comparatively long service of some of my officers, has made it possible for us to handle in a satisfactory manner a large number of casualties and it therefore appeared to me wise to develop the hospital along the lines of large output rather than of scientific development. It is in fact quite surprising how much more easily the staff works at the present time as compared with the situation which existed in the summer of 1916 when we were all of us quite unfamiliar with the problems peculiar to war. As a mere instance of this may be noted that at the present time we are caring for a larger group of quite as severe cases with only about a third of the officers actually on duty in the hospital that we had two years ago. Tremendous reductions have been made in the amount of labor incident to dressings and with greater knowledge a much smaller number of operations per patient has been possible. While no satisfactory figures are available it is believed that the number of cases dealt with by this unit has been satisfactorily large as compared with neighboring hospitals.

Some interesting experiments have been carried out in the way of using nurses to replace medical officers in various departments. This is of course in line with the development which has for some years been taking place in America but to a very much less extent in England. Since September, 1917, I have had no officer in charge of my X-ray department and a member of my nursing staff who had had considerable experience at home has been placed in charge with most satisfactory results. A nurse has been put in the laboratory and has been in charge of most of the routine work thus largely relieving the officer in charge of that department and enabling him to devote his attention to other things.

A particularly interesting development has been the use of nurses as anaesthetists. This was suggested by us in 1916 but was at that time regarded as too radical and could not be put into practice until the latter part of 1917, since which time we have carried on here a course of training in anaesthesia, have trained nurses for the use of the British Army, have supplied all our "surgical teams" with women as anaesthetists and constantly had on duty in the hospital from four to six nurses doing this work. I have been fortunate in having here two nurses of considerable previous experience upon whom has fallen the chief work of instruction and whose results have been excellent. It appears to me a most important development not only from its effect in relieving officers from this rather mechanical occupation but as a change which is likely to be very far-reaching under civil conditions. I am firmly convinced that it is one of the modifications in medical practice which is certain to occur in the future and that we are here only a short distance in advance of its very general adoption.

A further development which has had the effect of relieving officers of work and therefore enabling me to diminish the size of my working staff has been to give very much wider responsibilities to nurses in charge of wards. In the case of several of my senior charge-sisters they practically have full responsibility for the conduct of their wards, the medical officer acting only in the capacity of a consultant whose assistance may be sought at any time and who makes regular visits but only for the purpose of seeing particular cases and advising in regard to the principles of treatment. This system of course requires charge-sisters of peculiar capacity and large experience and is not capable of wide or universal application. On the other hand as applied here on a small scale it has saved very considerably the time of medical officers which could thus be devoted to other work and the net result as far as the progress of the patients is concerned has been entirely satisfactory.

Apart from the routine work with sick and wounded, much time was devoted during the winter of 1917-18 to the cure of hernias occurring in men who except for this disability were in all respects fit. The man-power situation was such that it was of the first importance that these men should be restored as quickly as possible to their full activity. It was somewhat doubtful whether these operations could be carried out under the conditions existing in the field, one of the important factors being the great prevalence of

catarrhal diseases of the respiratory tract which was nearly universal and which seemed likely to damage importantly the results of these operations. For this reason it was decided to do all these operations under local anaesthesia thereby eliminating the irritating effects of the anaesthetic and diminishing the possible dangers from this source. The results in a considerable group of cases were entirely satisfactory. Accidental wound infection was reduced below the level of the average municipal hospital practice as shown by the statistics published by the Massachusetts General Hospital before the War. The end results estimated at the end of three months were even more satisfactory and it is believed that the work was well worth while.

Another direction in which effort was made to stimulate the use of well-known procedures was in the application of blood transfusion to cases of hemorrhage in forward areas and the more extensive use of transfusion at the base in connection with secondary hemorrhage. Transfusion was not at the beginning of the War in nearly as common use in Great Britain as in America and it fell considerably upon American surgeons to popularize the practice and to devise practical methods of application. During the summer of 1917, in connection with Captain D. R. W. Crile of this unit, we developed the use of transfusion at a group of clearing stations in forward areas and the impetus thus given has been followed up through the winter and the present summer with, it is believed, good results. It is not at all intended to claim any originality either for the procedure or for the efforts to spread the gospel but we have been in a position here to act as a go-between in introducing American practices into the British Army.

During the present summer on account of military conditions this area was for a time exclusively used for the more slightly wounded known as "walking cases." It had been commonly believed that these wounds could be largely excised and sewed up in such a way that they healed promptly and eliminate not only much pain, much labor in dressing and surgical care, but a very large amount of time actually consumed in the healing of wounds. In practice, however, but little had been done in this line except in a small way at certain casualty clearing stations and it was doubtful whether the delay incident to sending these cases to the base might not make the procedure impracticable. The opinion was widely held that these operations could not be successfully done after the lapse of more than twenty-four hours from the receipt of

wound. Now it did not prove possible to deal with these cases in the forward areas during active military operations and it therefore followed that unless they could be handled successfully at the base no great benefit would result from the method. A very large group of these cases averaging about forty-eight hours old were treated by operation and primary suture during the summer just passed with surprisingly good result and there can be no doubt that this has constituted an important step in the treatment of battle casualties. It is probably the most important contribution to war surgery which this unit has made.

In closing this report it appears to me proper to point out certain non-military and largely non-medical results which may accrue from the operations of this unit for a period now exceeding three years. The work has grown very much from the original small conception of a hospital staff to work a British base hospital for a period of three months. By what now appears to me a most fortunate combination of circumstances the original conception could not be carried into execution and it fell upon the University to undertake the whole burden of the work or allow it to fall to the ground. I am firmly convinced of the wisdom of the decision then made to see the matter through. In the last three years the fact that this was an organization dependent upon the initiative of Harvard University has become widely known. It has tended to stamp the University not only as "an association of scholars" but as an active vital force in world civilization. It has made some of the ideals for which the University stands, and has always stood, better known to the British and far better known to the English than was or could otherwise have been the case. It appears to me not chimerical to hope that the good-will thus obtained and the position thus achieved may be used as the foundation for an increasingly intimate relation between Harvard and some of the great English universities. I believe that the relation of the British universities to their educational system and to their government must become closer, that a certain aloofness is likely to disappear, and that in this regard it is not inconceivable, that the University might play a part. For some time, but increasingly under the present administration, Harvard has been an important factor in the political as well as in the educational development of the United States. That her influence might now be of assistance in bridging the gap between English universities and their government is one of the benefits which I have hoped might flow from this

undertaking. We have here I think established a certain position from which the University is entitled to profit, and perhaps those less closely associated with it than I am will be able to see more clearly in what ways this relation may be turned to the advantage of Anglo-Saxon civilization.

HUGH CABOT,  
*Lt. Col., R.A.M.C., Harvard Unit,*  
*O.C. 22 General Hospital.*

CAMIERS, FRANCE

*November 1, 1918.*

## REPORT OF U. S. ARMY BASE HOSPITAL NO. 5

*Up to October 1, 1918*

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — I have the honor to submit the report of the U. S. A. Base Hospital No. 5 up to October 1, 1918.

This hospital was organized, under direction of President A. Lawrence Lowell, by Dr. Harvey Cushing, about a year before the United States declared war upon Germany. Of the original members two were detached before we actually began operating a hospital in France. These were Dr. Strong and Dr. Boothby, the former being taken from us for more important work before we left the United States, and the latter being attached to the British gas service after we had arrived in France.

The unit, consisting of 24 medical officers, 2 dental officers, 64 nurses, and 153 enlisted men, sailed from America on May 11, 1918; passed through England, where it was treated with great hospitality by various distinguished persons, and landed in France May 30, immediately beginning to operate British General Hospital No. 11, situated between the small towns of Dannes and Camiers, about 14 miles outside of Boulogne-sur-Mer. The work was new to officers and men, and was throughout the summer fairly arduous. We were obliged to ask for reinforcements as the hospital contained 2000 beds and we were only equipped to take care of 1000. These reinforcements consisted of 15 nurses, who arrived on July 19, 1917, and 40 enlisted men, who arrived July 30th.

Our commanding officer was Major (since Colonel) Robert U. Patterson, to whose tact and soldierly skill we owed much of our success. He was obliged to handle medical officers who had had practically no military training, as well as men who had been given only a few days' drill and had little knowledge of their work. This he accomplished so well that none of us have cause to be ashamed of the record of the hospital. Owing to the considerable military activities of that summer all the personnel were worked hard. The exact figures of the cases handled cannot be published at the present time as they are the secret property of the British Government, but it may be mentioned that during one period of twenty-four hours we admitted to hospital and cared for 964 cases of sick and wounded.

During the night of September 4, 1917, the hospital was attacked by enemy aircraft and we sustained the first casualties of the American Army in France since the declaration of war. Lieutenant Fitzsimons, our adjutant, was killed, and Lieutenants McGuire, Whidden and Smith were severely wounded. Three enlisted men were killed, Privates Woods, Rubino and Tugo, and five were wounded, Privates Sloan, Mason, Brower, McLeod and Stanion. It was necessary to amputate both legs of Private McLeod and he was later returned to the United States. The hospital was plainly marked and there seems little doubt but that this was a deliberate attempt by the enemy to welcome the first American troops into the fighting zone.

Owing to the somewhat unsanitary condition of the camp ground the hospital was moved on November 1 to No. 13 General Hospital, B.E.F., in Boulogne-sur-Mer, occupying the large Municipal Casino building, where it has remained ever since. Though containing fewer beds than the hospital at Dannes-Camiers, the cases are of a more severe character, involving great care and additional surgical and medical attendance.

On February 12, 1918, to the deep regret of the unit, Colonel Patterson was detached for service with the A.E.F.; Lieutenant Colonel Lee taking command. Colonel Lee proved himself an excellent administrator, a good soldier and a friend to every member of the organization. He increased the efficiency of the hospital to a marked degree and instituted a number of comforts for the men and patients. It was a great loss to us when he was taken to the American forces as consultant. Major Lyman is at present in command.

There have been a great number of changes in the staff since our tour of duty began. Many original members have been taken to the A.E.F. and have been replaced by "casuals" who in their turn have been moved on. Our efficient matron, Miss Hall, left on May 11, 1918, her place being taken by Miss Rose K. Butler, who has ever since done excellent work in this position. We have moreover budded off a mobile unit, an organization intended to work in the front areas and operate on wounded men who cannot be transported. This unit took five officers, thirty men and twenty nurses, which was a considerable tax on our slender resources.

In spite of much routine professional work, members of the staff have found time to do a number of pieces of research, mostly connected with war medicine or surgery. A partial list of papers published since landing in France follows:

Cannon, W. B., Major, M.C., U.S.A.

1. Some Alterations in the Distribution and Character of the Blood in Shock and Hemorrhage. W. B. Cannon (with John Fraser and A. N. Hooper). *Journal of the American Medical Association*, Vol. 19, p. 526. 1918.
2. Acidosis in Cases of Shock, Hemorrhage, and Gas Infection. *Ibid.*, p. 531.
3. A Consideration of the Nature of Wound Shock. *Ibid.*, p. 611.
4. The Preventive Treatment of Wound Shock. *Ibid.*, p. 618.

Cushing, Harvey, Major, M.C., U.S.A.

1. Notes on Penetrating Wounds of the Brain. *British Medical Journal*, February 23, 1918.
2. Study of a Series of Wounds Involving Brain and its Enveloping Structures. *British Journal of Surgery*, April, 1918.

Fitz, R., Captain, M.C., U.S.A.

1. The Urea Index as a Test for Kidney Function in a War Hospital.
2. Observations on Trench Nephritis at a British Hospital in France. (Unpublished. In press.)
3. A Case of Diabetes Mellitus (with Captain A. V. Bock). (Unpublished. In press.)

Lee, Roger I., Lieutenant Colonel, M.C., U.S.A.

1. Case for the More Efficient Treatment of Light Casualties in Military Hospitals. *Military Surgeon*, March, 1918 (Vol. 42, No. 3).
2. A Simple and Rapid Method for the Selection of Suitable Donors for Transfusion by the Determination of Blood Groups. *British Medical Journal*.

Potter, William H., Major, D.R.C., U.S.A.

1. Oral Hygiene as applied to the Army.

Robertson, Oswald H., Captain, M.C., U.S.A.

1. A Method of Citrated Blood Transfusion. *British Medical Journal*.
2. A Memorandum of Blood Transfusion. Medical Research Committee.
3. Transfusion with Preserved Blood Cells. *British Medical Journal*, June 22, 1918.
4. A Memorandum of Blood Volume after Hemorrhage (with Captain A. V. Bock, M.C., U.S.A.). Medical Research Committee.

Stoddard, James L., Captain, M.C., U.S.A.

1. The Occurrence of Spirochaetes in the Urine. *British Medical Journal*, September 29, 1917.
2. Some Points in the Technique of Separating Anaerobes. *Journal of the American Medical Association*, March 30, 1918.

3. Analysis of a Problem of Infection (with Captain S. C. Harvey). *Military Surgeon*, May, 1918.
4. The Occurrence and Significance of B. Welchii in Certain Wounds. *Journal of the American Medical Association*.
5. Multifermentans Tenalbus. *Lancet*.

Terhune, William B., Lieutenant, M.C., U.S.A.

1. The War Neuroses. *Journal of the American Medical Association*, May 11, 1918.

#### CHRONOLOGICAL LIST OF CHANGES AMONG OFFICERS

1917

- June 4. Capt. Walter M. Boothby relieved from duty for study of gas question in London.
- " 6. Capt. Charles Rund, Jr., Quartermaster, committed suicide while temporarily insane.
- " 11. Capt. Wallace J. Jaka, Q.M.C. arrived for duty as Quartermaster.
- " 22. Capt. J. A. Kenan and 1st Lieuts. Paul V. Wooley and Rae Whidden joined for duty.
- Aug. 11. Lieuts. J. B. Seeley, H. A. Sullivan and T. D. Smith joined for duty.
- " 23. Lieut. Paul V. Wooley detached for duty with the A.E.F. Major D. W. Harmon detached for duty with A.E.F.
- " 27. 1st Lieuts. C.A. McGuire and William Fitzsimons joined for duty.
- Sept. 4. Air raid on hospital. Lieut. Fitzsimons killed; Lieuts. Smith, Whidden and McGuire wounded. (Lieuts. Smith and Whidden were invalided to the United States; Lieut. McGuire (now Captain) still on duty with this hospital.
- " 16. Lieut. William B. Terhune joined for duty.
- " 23. Lieut. W. B. Cannon detached for duty with A.E.F. as Chief of Gas Service.
- " 25. Lieut. P. R. Withington joined for duty.
- Oct. 20. Capt. J. S. Brummette joined for duty.
- " 25. Capt. H. A. Bullock joined for duty as Quartermaster.
- Nov. 1. Capt. W. A. Jaka detached for duty with A.E.F.
- " 11. Capt. James P. Wall joined for duty.
- " 30. Capt. Brummette detached for duty with B.E.F.
- Dec. 9. Lieut. W. H. Potter, D.R.C. detached for duty as instructor at Army Sanitary School, A.E.F.

1918

- Jan. 14. M.H. Sergt. A. Hepburn commissioned First Lieutenant in Sanitary Corps and assigned to duty at this station.
- " 29. Lieuts. Seeley and Sullivan detached for duty with A.E.F.
- Feb. 1. Capt. H. M. Clute joined for duty.
- " 22. Capt. Victor Fegley joined for duty as Quartermaster.
- " 28. Lieut. Col. Patterson relieved from command for duty with A.E.F. Major Roger I. Lee appointed Commanding Officer to replace Col. Patterson.
- Capt. H. A. Bullock detached for duty with A.E.F. (Subsequently killed in an air raid.)

- April 17. Sergt. 1st cl. W. J. Kenefick and Sergt. H. A. LaFayette commissioned First Lieutenants in Dental Reserve Corps. Lieut. LaFayette assigned to duty at this station.
- " 22. Lieut. Richard A. Stewart joined for duty as roentgenologist.
- " 24. Major Percy Brown relieved from duty because of injury to hand caused by X-Ray. (Major Brown is now in the U. S.)
- May 15. Lieut. W. J. Kenefick detached for duty with 14th Engineers (Ry.), A.E.F.
- " 16. Capt. E. C. Cutler detached for duty with A.E.F.
- " 25. Lieut. W. B. Terhune detached for duty in Psychiatric Division, A.E.F.
- June 18. Major Harvey Cushing detached for duty as Senior Consultant in Neurological Surgery with A.E.F.
- " 23. Major George Derby detached for duty as Ophthalmologist with A.E.F.
- " 24. Capt. George P. Denny relieved from duty and assigned temporarily with Royal Air Force Hospital, London.
- July 8. Lieut. A. F. Graham joined for duty.
- " 9. Sergts. 1st cl. J. E. Foley and Cecil L. Holden commissioned First Lieutenants in Sanitary Corps and assigned to duty at this hospital.
- " 30. Capt. J. A. Kenan detached for duty with Mobile Hospital No. 3, A.E.F.
- Aug. 3. Capt. S. C. Harvey detached for duty with Base Hospital No. 15, A.E.F.
- " 28. Capt. E. B. Towne detached for duty as Commanding Officer, Mobile Hospital No. 6, A.E.F.
- Sept. 4. Lieut. A. F. Graham transferred to England because of recurrence of old wound.
- " 6. Lieut. Col. Roger I. Lee detached for duty as Senior Division Consultant in General Medicine, 3rd Corps, A.E.F. Capt. Henry Lyman (now Major) assumed command.
- " 7. Lieut. Clarence C. Bozman joined for duty.
- " 9. Lieut. T. R. Goethals and Lieut. J. E. Foley detached for duty with Mobile Hospital No. 6, A.E.F.
- " 17. Capt. O. H. Robertson detached for duty at Central Medical Department Laboratory, A.E.F.
- " 22. Capt. J. P. Wall and Capt. H. S. Forbes detached for duty with Mobile Hospital No. 6, A.E.F.
- " 24. Lieut. Frank LaRue joined for duty.
- " 25. Capt. William A. Toland joined for duty.

HENRY LYMAN,  
Major, Medical Corps, Commanding.

## THE DENTAL SCHOOL

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — As Dean of the Dental School, I have the honor of presenting my report of the School for the academic year 1917-18.

### STATISTICS OF ENROLMENT

Third-year students.....	83
Second-year students.....	90
First-year students.....	44
	<hr/>
Total.....	217

Instruction was given in the following subjects:—

**Biology.** — Instructor **BOYDEN**, Teaching Fellow **SHANER**.

**Anatomy and Histology.** — Associate Professor **BREMER**, Associate Professor **LEWIS**, Associate Professor **WARREN**, Instructors **BOYDEN**, **GREEN**, **HAMMETT**, **HAMILTON**, Lecturer **THOMA**, Assistants **SHAPIRA**, **TEMPLE** and **BARRON**.

**Physiology.** — Professor **CANNON**, Asst. Professor **STILES**, Instructors **DRINKER**, **Forbes** and **REDFIELD**, Austin Teaching Fellow **MORRIS**.

**Physiological and Dental Chemistry.** — Lecturer **H. CARLTON SMITH**, Instructor **RICE**.

**Bacteriology.** — Professor **ERNST**, Associate Professor **WOLBACH**, Instructors **FLOYD**, **PAGE**, and **STEELE**, Assistants **BOUTWELL**, **HAMMOND**, **PERRY**, and **SPOONER**.

**Materia Medica, Pharmacology, and Therapeutics.** — Lecturer **O'CONNELL**, 38 lectures.

**Dental Pathology.** — Professor **BRACKETT**, 15 lectures; Lecturer **THOMA**, 15 lectures.

**General Pathology.** — Professor **MALLORY**, Instructors **COOK** and **Ward**, 20 lectures, 20 laboratory exercises.

**Neurology.** — Professor **E. W. TAYLOR**, 4 lectures.

**Crown and Bridge Work, Seniors.** — Professor **COOKE**, Lecturer **HOVESTAD**, 14 lectures and demonstrations.

**Crown and Bridge Work, Laboratory, Seniors.** — Lecturer **J. F. HOVESTAD**, Instructors **PETERS**, **ANDREWS**, **BRIGHAM**, **F. W. HOVESTAD**, and **RUELBERG**, Assistants **ROBERTS** and **SOWLES**.

**Orthodontia, Seniors.** — Asst. Professor **BAKER**, 20 lectures.

**Orthodontia Practice, Seniors.** — Asst. Professor **BAKER**, Instructors **FERNALD**, **HOWE**, **HATFIELD**, **W. C. MINER**, and **GOVE**, Assistants **BLUMENTHAL**, **BONIN**, and **SEVERY**. 158 hours.

- Prosthetic Dentistry, Seniors. — Instructor RUSSELL, 32 lectures.
- Prosthetic Dentistry, Laboratory, Seniors. — Instructors RUSSELL, LANGLEY, GIBLIN, MYERSON, GAHM, SHANNON, CLARK, CALDER, Assistants CAVANAGH, MARSH, CHAMBERS, and CUSEMAN. 384 hours.
- Facial restorations and fractured jaws. — Instructor RIHAN. 240 hours.
- Prosthetic Dentistry, Juniors. — Assistant Professor BECKFORD. 32 lectures.
- Prosthetic Dentistry, Laboratory, Juniors. — Asst. Professor BECKFORD, Instructors ELDRED, DORT, WESTON, CATHERON, LORD, SULLIVAN, GLAZIER, MALMSTROM, W. B. ROGERS, Assistants WEBSTER, B. S. STEVENS, McCARTY, WADE, GOETZ, PHACOCK, GILBERT, MAHONEY, F. G. PIERCE, SPROAT, GALLOWAY, WILLIAMS, LESLIE, BURTT. 595 hours.
- Prosthetic Dentistry, Laboratory, First Year. — Instructor FLAGG, Assistants R. B. SMITH and BOLAN (by invitation of the Administrative Board). 64 hours.
- Extracting and Anaesthesia. — Lecturer MIDGLEY, Instructors FARRINGTON, NORWOOD, WOLFE, RING, HERDER and J. M. SMITH. 820 hours.
- Inlays, Practical Work, Seniors. — Instructors HADLEY, OLDHAM, NESBETT, and WARNER. 96 hours.
- Inlays, Specimens, Juniors. — Instructors HADLEY, WARNER, and Assistant F. F. FURFEY. 75 hours.
- Radiography. — Instructor CUMMINGS. 16 lectures.
- Surgical Pathology and Surgery. — Professor MONKS, 27 lectures; Assistant Professor BLAKE, 5 clinics; Professor MONKS, Asst. Prof. MINER, Instructor TAFT, clinics, 160 hours.
- Syphilis. — Assistant Professor C. MORTON SMITH, 1 lecture, 32 clinics.
- Operative Dentistry, Seniors. — Assistant Professor DILL, 5 lectures, 1 quiz; Lecturer WRIGHT, 4 lectures; Lecturer MIDGLEY, 10 lectures, 4 quizzes; Instructor JAMESON, 5 lectures, 1 quiz.
- Operative Dentistry, Lectures and Clinical Conferences, Professor E. H. SMITH, 20.
- Operative Dentistry, Practical Work, Seniors. — Professor SMITH, Asst. Professor EDDY, Instructors JEWELL, CODMAN, PARSONS, PARKHURST, NAYLOR, HAYDEN, LIBBY, PAUL, ELLIOTT, PIKE, F. D. PIERCE, WHITCHURCH, CHASE, CARLE, TIMLIN, DAVIS, SPINNEY, CROWLEY, ESTES, LAWTON, McCULLAGH, F. T. TAYLOR, HEAP, JEWETT, GILMAN, RYDER and EMERSON, and Assistants SPENCER, G. B. BLAISDELL, EDSON, A. V. ROGERS, WALLACE, and SIMPSON.
- Operative Dentistry, Clinical Demonstrations, Seniors. — Assistant Professor BLAISDELL and Instructor FURFEY.
- Operative Dentistry, Juniors. — Assistant Professor DILL, 32 lectures.
- Operative Dentistry, Practical Work, Juniors. — Assistant Professor DILL, Instructors WOOD, MACKINTOSH, SAFFORD, PERRIN, WYMAN, HAYMAN, C. E. STEVENS, BURNHAM, SLACK, WHITE, CARTER, MCGOURTY, HICBORN, RINGER, FOSS, and Assistants THOMSON, LOVELAND, FISKE, GRAY and HOEY. 535 hours.

**Anaesthesia.** — Instructors JAMESON, SQUAREBRIGS, PROVAN, MALLETT, ASHLAND, and Assistants CURTIS and S. H. VAUGHAN.

**Pyorrhoea Alveolaris, Seniors.** — Dr. STANLEY and Dr. C. B. VAUGHAN, 32 clinics.

The record of laboratory work and service to patients is as follows: —

No. of specimens and models, laboratory work.....	2,352
“ practical cases in Prosthetic Department.....	1,824
“ operations in the Operative Department.....	18,957
“ cases treated for irregularities of teeth.....	167
“ operations in Surgical Department.....	9,008
“ radiographs.....	3,924

From November 5 to June 21, in conjunction with the Tufts Dental School, we conducted a school for the training of young women in oral prophylaxis. The school was rather hurriedly organized during the latter part of the summer and early fall of 1917, and consequently was not well advertised. We required of students entering this course that they be graduates of high schools or furnish proof of equivalent training. The number of students was six, and the following courses were offered:

- Dental Anatomy
- Dental Materia Medica
- Dental Histology
- General Physiology
- Pathology of mouth lesions
- Bacteriology
- Chemistry
- General Hygiene
- Oral Prophylaxis
- Sterilization of instruments
- Office Management
- Radiography
- General prosthetic lectures covering metals and laboratory processes
- Training as Demonstrators and Teachers of Oral Hygiene for public service
- Practice work on Dentech
- Practical work on patients.

A free course in War Dentistry and Oral Surgery for the teaching staff and students of the School was given in January and February and was largely attended. The purpose of the course was to give men special training along lines in dentistry that had been made prominent in actual warfare overseas. Among our teachers in this course, we were fortunate in having Dr. C. A. Porter, Dr. Robert S. Catheron, and Dr. Frank H. Cushman, who had been overseas

and seen conditions and needs at first hand. The course given was as follows:—

War Dentistry	}	.....	Dr. Robert S. Catheron
War Maxillary Fractures			
Maxillary Fractures			Dr. H. Y. Rihân
Anatomy of the Head			Dr. Robert M. Green
War Maxillary Fractures			Dr. Frank H. Cushman
Bandaging			Dr. George David Cutler
Di-chloramine T.			Dr. C. A. Porter
Plastic Surgery			Dr. George H. Monks
X-Ray			Dr. George W. Holmes
Anaesthesia			Dr. Frank L. Richardson
Military Etiquette			Major William F. Flynn, U.S.A.

In connection with this course Asst. Professor Leroy M. S. Miner gave a course of twelve lectures to the teachers and students, covering the subject of Minor Surgery. He has also published a paper on "The Influence of the General Health on Oral Tissue."

During the year the Harriet Newell Lowell Society for Dental Research held several very interesting meetings. Among the speakers were President Lowell, Dr. Robert H. Greenough, Director of the Collis P. Huntington Hospital, Dr. Percy R. Howe, Dr. George A. Bates, Dr. Earle C. Cummings, Mr. Salim Y. Alkazin, and Dr. Moses J. Eisenberg. Mr. Willis J. Bickford, a student member of the Society has conducted, under the direction of Dr. H. Carlton Smith, a series of experiments to determine the effect of the reaction of saliva on various tooth powders and creams. He has also carried on some research work in the line of electrolytic dental medication.

In the early part of the year the Corporation, acting upon the recommendation of the Administrative Board, created a new department to be known as the Department of Dental Research, and appointed Dr. Percy R. Howe as Assistant Professor of Dental Research. This is but the natural outgrowth of the bequest of Miss Harriet Newell Lowell in 1913, which was immediately followed by the forming of the Harriet Newell Lowell Society for Dental Research. Dr. Howe, in addition to his connection with our School is the chief of the laboratory of Dental Research in the Forsyth Dental Infirmary for Children. With this combined relationship we may well hope for real scientific advancement along dental lines.

The activities of Dr. Howe during the past year may well be understood by the following report of papers published and in press: Silver Reduction Method in Root Canal Work; The Valid-

ity of Marshall's Salivary Factor; Treatment of Pulpless Teeth; Bacterial Count in Cases of Caries and Immunes; The Treatment of Root Canals by Silver Reduction; Capillary Attraction in Root Treatment; Experimental Pyorrhoea; To What Degree are the Teeth Responsible for Systemic Disease?; Root Canal Treatment.

Dr. George H. Wright is pursuing studies at the Massachusetts Eye and Ear Infirmary on the diseases of the eye in relation to the teeth. He has also lectured in various places on the following subjects: Iritis and Diseases of the Oral Cavity; Asthma and Protein Absorption from Diseased Teeth; Dental X-Ray Interpretations; Child Welfare; Child Conservation and Dental Responsibility.

Dr. Kurt H. Thoma, in addition to publishing a text book on "Oral Roentgenology," comprising a Roentgen study of the pathology of the oral cavity, has read or published the following papers: A Histo-Pathological Study of the Dental Granuloma and Diseased Root Apex; Selection of Anaesthesia for Oral Surgical Operations and the Roentgen Ray as an Aid in Diagnosis; Chronic Diseases of the Mouth of Interest to the Physician; The Condition of the Bone in Cases of Dental Granulomata, or Chronic Alveolar Abscesses; Dental Diseases in Relation to Diseases of the Nose and Throat; Relation of the Teeth and Jaws to Medicine.

Dr. Waldo E. Boardman, Curator and Librarian, reports that eighty-five volumes have been added to the library during the year, making the total number of volumes in the library 2511. In the stack room are some 1722 volumes and 7500 miscellaneous pamphlets in duplicate for sale or exchange. By vote of the Administrative Board students are now permitted to take books out of the library and keep them for three days. This has proved a great help to the students, since their time is so taken up with infirmary activities there is little or no time left for the perusal of books in the library.

Dr. Franklin Dexter, Director of Scholarships for the Medical School, has continued his interest in the welfare of the dental students and has helped them from a private fund, as the following report shows:

Number of students interviewed . . . . .	9
"    interviews . . . . .	18
"    letters received and answered . . . . .	8
Total number of students aided, exclusive of scholarships . . . . .	2
Number to whom money was loaned . . . . .	2
Amount of money loaned . . . . .	\$110
"    money refunded by the students . . . . .	\$30

Dr. Kazanjian and his associates have continued their wonderful oral and facial reconstruction work at the western front, and Dr. Kazanjian has recently sent to the school several boxes of plaster casts of the faces of soldiers, some showing the terrible destruction of the mouths and jaws caused by bullets and shrapnel, and others showing the result of his marvelous work of reconstruction. It is a striking exhibit without parallel in the history of gun-shot injuries of the mouth and jaws.

Professor William H. Potter, who since 1914 has given so much dental service, first to the French, and during the last year to the U. S. Forces over seas, has been made a major and has been, for the greater part of the last year, in charge of the dental section of the Army Sanitary School. In this capacity he has been of great help to our dental boys at the western front.

Immediately upon our declaration of war, we were approached by all branches of the War Department with requests to help put the mouths of the recruits and drafted men in such condition as to enable them to be accepted for service. In response to this call we were enabled to perform the following operations:

Cleaning and examination.....	276
Treatments.....	423
Amalgam fillings.....	1,288
Combination fillings.....	254
Cements.....	781
Silicates.....	192
Gutta percha.....	25
Extractions.....	838

We also had a hurried call from the Peter Bent Brigham Hospital Unit, and by devoting our entire equipment and all of our Senior students for a day and a half to the work were able to care for 131 members of the Unit.

The above figures do not represent all of the work done for the soldiers during the year, as in many cases soldiers were turned to the private offices of our teachers, who not only finished the work begun by our students, but cared for many soldiers who went direct to their offices. We also lent five of our dental chairs to different departments of the Navy, which enabled the dentists in charge to begin their work on the enlisted men at once.

EUGENE H. SMITH, *Dean.*

# REPORT OF THE DIRECTOR OF SCHOLARSHIPS IN THE MEDICAL SCHOOL

September 24, 1917–September 23, 1918

	Medical	Dental	Total
Number of applicants for first-year scholarships..	27		27
Number of applicants for other scholarships.....	64		64
Number of students interviewed.....	142	9	151
Number of interviews.....	325	18	343
Number of letters received and answered.....	183	8	191
Total number of students aided (exclusive of scholar- ships).....	25	2	27
Number to whom money was loaned.....	23	2	25
Number to whom money was given.....	2		2
Amount of money loaned.....	\$2,025	\$110	\$2,135
Amount of money given.....	250		250
Sources from which money was obtained:			
Private Fund.....	1,950	110	2,060
Anonymous Gifts .....	325	..	325
Amount of money refunded.....	1,075	30	1,105

FRANKLIN DEXTER,  
*Director of Scholarships.*

## THE LIBRARY

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — As Director of the University Library and Chairman of the Council of the College Library, I beg to submit my report covering the year July 1, 1917, to June 30, 1918.

In the course of the last year the Harvard University Library, like the rest of the University, has been more and more affected by the War. This has been true on the largest scale in the College Library, and in every part. The usual resort to it and the taking out of books have become correspondingly less with the great falling off in the number of students, and with their absorption in war work, and with the absence of many of the Faculty. Most of the younger men in the staff have left to take up war work of one kind or another, and their places have not been filled, with the inevitable result that there has been a decline of achievement and efficiency in more than one branch. Even the total of volumes ordered and acquired shows a marked decrease. A number of duplicates have been given away for the training camps and for the soldiers abroad. Only the Catalogue Department has continued almost unaffected, for it has enough work waiting to be done to keep it busy for years, whatever may be the falling off in the new accessions. There has, indeed, been a cutting down in expenses, but this has been from a feeling of patriotic duty, not from lack of ways in which money could profitably be spent.

The Library has also been the scene of not a little war work of one kind or another. Its resources in the fields of history and economics have made it a natural centre for important parts of the work of the Commission of Inquiry under the direction of Colonel House, and this, not only for members of the Harvard Faculty who have been employed in it, but for scholars from elsewhere. Many of the professors' studies have been the scene of devoted labor for one branch or another of the Government. First, the historical reading room, and later, other rooms have been given up in the evening to the School for Ensigns, and the S.A.T.C. students are receiving an ever larger space. Down in the basement there has been established the Overseas Despatch Office of the American Library Association for this part of the country, and by November 1st more than half a million volumes had passed through its hands.

When the war ends the College Library will have its share of difficult questions to face, including painful financial ones. At present, its regular staff has been reduced in numbers, but the saving due to this cause has been in large part offset by the necessity of raising the wages of many persons who have remained. Such wages are not likely soon to be reduced, they are low enough as it is; on the contrary, here as throughout the community the tendency is steadily upward. But when the Library returns to full activity, it will require at least as full a staff as before, especially as there is no fear for the immediate present of a falling off in the number of books that will come to it. It has just received from the bequest of the late Evert Jansen Wendell the largest gift of books in its history, and as soon as the war is over, besides getting from across the ocean the many volumes that are only awaiting peace and the facilities of transportation, it will have to purchase many others that have appeared in the last four years, and that it has not been able to acquire. It will also, in some measure, have to build up again its personnel, and doubtless to make changes in its system to meet new conditions that will arise; indeed, in one way or another, it will be confronted by problems of reconstruction of no slight magnitude.

ARCHIBALD CARY COOLIDGE.

## APPENDIX TO THE LIBRARY REPORT

## ACCESSIONS

The accessions to the University Library for the year and the present extent of each of its parts are shown in the following tables:—

LIBRARIES	Volumes and Pamphlets added	Present extent in Volumes and Pamphlets
<b>College Library:—</b>		
Main Collection . . . . .	32,000	997,000
Forty-three Special Libraries . . . . .	8,940	111,000
Total . . . . .	40,940	1,108,000
<b>Departmental Libraries:—</b>		
Law School . . . . .	4,908	198,800
Andover-Harvard Theological Library . . . . .	2,994	168,000
Museum of Comparative Zoölogy . . . . .	4,066	111,000
Peabody Museum . . . . .	895	14,800
Astronomical Observatory . . . . .	1,430	50,600
Gray Herbarium . . . . .	448	28,000
Medical School . . . . .	4,438	87,300
Dental School . . . . .	79	2,500
Arnold Arboretum . . . . .	623	39,500
Bussey Institution . . . . .	1,340	23,000
Blue Hill Observatory . . . . .	180	23,500
Total . . . . .	61,831	1,854,900

Maps in sheets, in the College Library, 30,916.

Broadsides, posters, programs, play-bills, leaflets, clippings, autographs, photographs, engravings, etc., are not included in the figures above, and it is impossible to give any enumeration of them. The collection of broadsides alone, American, English, French, etc., includes several thousand sheets.

The additions to the main collection have been:—

RECEIVED BY COLLEGE LIBRARY	1912-14	1914-15	1915-16	1916-17	1917-18
By purchase or exchange, vols. . .	10,741	11,741	10,578	12,778	10,737
“ “ “ “ pams. . .	8,053	4,697	2,271	4,960	9,781
By gift, vols. . . . .	9,353	34,386	16,953	26,889	14,157
“ “ pams. . . . .	21,674	24,275	12,544	14,365	26,301
By binding serials, vols. . . . .	2,470	2,357	2,042	2,601	2,602
Total volumes . . . . .	22,564	48,484	29,568	42,268	27,496
“ pamphlets . . . . .	24,727	28,972	14,815	19,325	35,982
Total received, vols. and pams.	47,291	77,456	44,383	61,593	63,478
Maps in sheets . . . . .	453	512	269	287	681
Net growth (after making allowance for transfers, duplicates disposed of, etc.) . . . . .	22,239	45,481	29,581	29,000	32,000

## EXPENSES ON BOOK ACCOUNT FOR FIVE YEARS

	1913-14	1914-15	1915-16	1916-17	1917-18
Central Library :					
From book funds . . . . .	\$32,056	\$25,674	\$30,997	\$24,748	\$26,582
From special gifts, etc. . . . .	20,708	8,841	4,076	15,761	6,479
Total . . . . .	\$52,764	\$39,515	\$25,073	\$40,504	\$33,061
Special libraries . . . . .	8,072	7,710	7,526	7,060	6,298
Total . . . . .	\$60,836	\$37,225	\$32,599	\$47,564	\$39,354

## SPECIAL LIBRARIES

The present extent of these forty-three libraries is as follows: —

<i>In the Widener Building</i>	<i>Outside the Widener Building</i>
Volumes and Pamphlets	Volumes and Pamphlets
Bureau for Municipal Research.	Zoölogical Lab. <i>Museum</i> .... 445
Room O . . . . . 6,618	Engineering. <i>do.</i> . . . 510
Business School. Rooms G, H, and I . . . . . 8,082	Students' Palaeontological Lab. <i>Museum</i> . . . . . 11
Child Memorial. Room Z... 5,779	Plant Physiological Labora- tory. <i>Bot. Museum</i> . . . . 384
Classics. Room E. . . . . 5,270	Astronomical Lab. . . . . 108
Economics. Lower R. R. . . . 1,953	Philosophy. <i>Emerson</i> . . . . 6,120
French. Room W. . . . . 2,666	Social Ethics. <i>do.</i> . . . . 10,860
German. Room Q. . . . . 1,679	Semitic. <i>Semitic Museum</i> . . . 2,199
Graduate Economics. Room V 417	Germanic Museum. . . . . 76
Graduate History. Room K 626	Sanitary Engineering. <i>Pierce</i> . 734
History. Lower R. R. . . . . 5,941	Economic Geology. <i>do.</i> . . . 103
Lowell Memorial. Room X. 1,710	Mining and Metallurgy. <i>Rotch</i> <i>Lab.</i> . . . . . 545
Mathematics. Room T. . . . 1,353	Music. <i>Music Building</i> . . . . 2,818
Sanskrit. Room A. . . . . 949	Fine Arts. <i>Fogg Museum</i> . . . 2,326
Statistical Lib. Room U . . . 247	Architecture. <i>Robinson</i> . . . . 2,351
	Landscape Arch. <i>do.</i> . . . . 3,847
	Preachers' Lib. <i>Wadsworth</i> . 118
	Office of Medical Adviser. <i>Thayer</i> . . . . . 38
	Phillips Brooks House Lib. . . . 500
	Forestry. <i>Bussey Institution</i> 132
	Total, Special Libraries. . . 113,951
	Deduct for books on deposit from Central Library . . . . 2,728
	111,223

## CIRCULATION AND REFERENCE DEPARTMENT

The following table shows the use of books as recorded at the delivery desk and at the desks in the two larger reading rooms, but there is no way of showing the unrecorded use of books in the reading rooms and in the stack, and the temporary use of books in stalls and studies.

Use of Books	Randall Hall and Massachusetts Hall			Widener Memorial Library		
	1912-13	1913-14	1914-15	1915-16	1916-17	1917-18
<b>Recorded at Loan Desk :</b>						
1. Lent for home use . . . . .	51,786	53,467	57,058	55,730	60,621	53,709
2. Reading room use . . . . .	21,250	28,736	25,219	45,415	54,233	27,181
3. Study use . . . . .	....	....	....	1,254	1,598	1,420
4. Stall use . . . . .	....	....	....	5,789	11,269	12,016
<b>Total . . . . .</b>	<b>73,036</b>	<b>82,203</b>	<b>82,277</b>	<b>108,188</b>	<b>117,721</b>	<b>94,326</b>
<b>Overnight use of Reference Books:</b>						
General reading room . . . . .	10,850	12,322	14,272	14,612	13,348	8,977
Lower reading room . . . . .	16,318	14,186	12,986	6,332	5,421	5,977

## GIFTS OF THE YEAR

## SUMMARIZED FROM THE REPORT OF THE LIBRARIAN

The largest gift of the year was the bequest from Evert Jansen Wendell, '82, whose great collection of books, pamphlets, sheet music, play-bills, posters and portraits, largely but by no means exclusively of theatrical interest, contained perhaps 35,000 volumes and hundreds of thousands of other items. By the terms of his will, the Library is permitted to take whatever it requires to fill out its own collections, the remainder to be sold at auction in New York. No detailed notice of the extent and character of what the Library receives can be given in the present report, the work of selection not being completed, and no part of the collection is included in the statistics of accessions given above. It may be said that what is received supplements and fills out quite wonderfully the valuable Shaw theatrical collection, adds many thousand items to our collections of plays and of sheet music, and to other parts of the Library, and gives us a collection of photographic and engraved portraits and views such as we had not attempted to form before. On the other hand, owing to the richness of the theatrical collection already owned by the Library, there remains of the Wendell collection, to be sold later, a great number of rare items — perhaps even the most valuable portion of the whole collection.

Other gifts of interest are: —

From Dr. Edward H. Bradford, '69, of Boston, some 1,500 volumes of Spanish and Italian literature from the library of his father, the late Charles F. Bradford.

From the estate of Dr. Francis H. Brown, '57, an unflagging collector of information relating to Harvard men and the author of "Harvard University in the War of 1861-65," 390 volumes and 427 pamphlets, almost exclusively Harvard material, and including the results of many years' collecting toward a history of the graduates of the Harvard Medical School.

From the Massachusetts State Library, on deposit, many foreign documents and state papers.

From the Porcellian Club, several hundred volumes of early American and English novels, no longer interesting to the casual reader of today, but valuable to the student of English literature.

From Mr. Clarence A. Warner, in continuation of former gifts, many Canadian pamphlets and a number of interesting war posters.

From Mrs. Thomson of Paris, many books of current interest on the War, French, Russian and German posters, and a complete file, unique in some particulars, of the French *Bulletin des Armées*.

Gifts in money for the purchase of books were naturally, under war conditions, much less than in previous years, amounting nevertheless to \$3,856.46. A full list of these gifts will be found in the Treasurer's Report.

Two new book funds have been received during the year — a legacy of \$10,000 from Horace Davis, of the Class of '49, of San Francisco, the income to be used "for the purchase of books relating to the North Pacific Ocean and its shores"; and a gift of \$5,000 from Edwin Swift Balch, of Philadelphia, of the Class of '78, the income to be used for the "purchase of books relating especially — first, to the fine arts, glyptic and graphic in the broadest sense of the term, and including all primitive arts such as those of the American Indians or the African Negroes; and second, to geography, also in the broadest modern sense of the term, and including books of travel and exploration, as well as scientific geographical works.

## APPLETON CHAPEL AND PHILLIPS BROOKS HOUSE

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — The Sunday morning services were continued during the year as usual. For nine weeks, from January 27th to March 24th inclusive, these services were held in Sanders Theatre in order to save coal. During this period daily morning prayers were held in the Faculty Room in University Hall. Attendance upon the Sunday service was somewhat affected by this change. The resort to the daily service was seriously diminished. In the spring attendance at this service still further declined. The use of the morning hours under military regulation affected a large majority of the students. With the establishment of the Students' Army Training Corps and of the Naval Unit at the opening of the fall term it was found necessary to put the daily service on the military order of the day at seven o'clock in the evening. Comparatively few of the men under orders of the government were in residence before October 21st. The beginning of their work was postponed because of the epidemic. It is perhaps too early to form a judgment as to the possible success of the new plan. Students under the government have supervised study hours on the yard beginning at seven-thirty. The Brooks House societies in former years freely chose seven o'clock for many of their meetings. The hour is however an extremely difficult one for members of the Faculty and for students living in their own homes. The Naval Radio School has again a chaplain of its own who holds a service for that school in Sanders Theatre on Sunday morning at nine o'clock. On the other hand, many men of the Naval Officers Material School attend the Sunday service at the University Chapel.

The activities of the Phillips Brooks House have greatly fallen off. Almost all the experienced men have gone to the war. The new men are largely under military and naval regulation. The various agencies which have been built up mainly during the last seven years under the administration of Mr. Beane will be in abeyance until after the war. The Brooks House Association was however responsible for many phases of the work at the Radio Canteen during the year. The work of the canteen had been in-

augurated in the summer of 1917 by a group of women of Cambridge, most of whom were connected with the Faculty. The hut was built by the War Time Commission of the Christian Association. The Brooks House has been used as a hostess house for the Radio School and continues so to be used. Mr. Beane has resigned to take an important industrial position. It would be difficult to say how much the Brooks House and the University as a whole owe to the energy and good judgment and high character of Mr. Beane. Mr. Harold Thurston, '16, has been asked to return to Cambridge to take up especially those aspects of our work which relate to the men in the University who are under the authority of the Army or Navy. This is clearly the task immediately before us. It is planned to open the house on Holyoke Street which has been used by the Speakers Club as a canteen for the Army and Navy men in the University, and to open here also quarters for the hostess committee. Work at this house is to be under the Brooks House Association, while that at the Radio School Hut has been transferred to the Christian Association.

EDWARD CALDWELL MOORE.

## THE GRAY HERBARIUM

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR,— In the course of the past academic year, in addition to the regular staff, the following persons were temporarily employed by the Gray Herbarium in special capacities: Mr. C. A. Weatherby, in further organization of the ferns; Dr. S. F. Blake and Dr. Harold St. John, in determinative work; Messrs. O. L. Raber and F. C. Seymour, in distribution of *inserendae*; Miss Helen E. Day, in bibliographical indexing; and Mrs. A. D. McClatchie, as clerical assistant.

By the death of Dr. George Golding Kennedy, of Milton, the Herbarium lost a staunch friend who has been a member of its Visiting Committee continuously for no less than thirty years. Dr. Kennedy, a pupil and friend of Dr. Asa Gray, has furthered in every possible way the interests of the Gray Herbarium, having contributed with notable generosity to its endowment, having defrayed the expenses of rebuilding and newly equipping portions of its building, notably, its library wing, and having exercised a kindly and very significant influence to enlarge its reputation and increase the number of its patrons.

Dr. Kennedy, for many years one of the most active and earnest students of New England botany, particularly familiar with the biologically interesting region about Willoughby Lake, in northern Vermont, had built up a personal herbarium of extent and excellence. This, some months before his death, he gave to the Gray Herbarium. Including 13,500 sheets of specimens, collected, prepared, and mounted with unusual care, it forms one of the largest and most valuable accessions ever received by the establishment. Dr. Kennedy also bequeathed to the Gray Herbarium the botanical books in his large and carefully developed library, a legacy received after the close of the academic year and to be described in greater detail in the next report.

The other more noteworthy collections of plants received during the year have been as follows:

I. *By gift, in exchange, or for identification:*

From the New York State College of Agriculture, through Professor K. M. Wiegand, 2211 plants of New York State; from the

California Academy of Sciences, 1129 plants of the Galapagos Islands and 32 plants of Cocos Island, collected and identified by Professor Alban Stewart, 803 plants of California, collected by Miss Alice Eastwood and others; from the Canadian Geological Survey, through Mr. J. M. Macoun, 798 plants of southern Labrador, collected by Dr. Harold St. John, 600 plants of Canada, chiefly from British Columbia; from Bro. Marie-Victorin, of the College de Longueuil, 583 plants of Quebec; from the Arnold Arboretum, 267 herbaceous duplicates, chiefly from Alaska, China, and the Philippine Islands; from the Philadelphia Academy of Natural Sciences, 312 plants of Delaware, collected by Mr. A. Commons; from Dr. J. M. Greenman, 1002 plants from his personal herbarium; from the United States National Herbarium, 514 plants of the Canary Islands, collected by Mrs. Alice Carter Cook, 323 plants of Costa Rica, Panama, and Colombia, collected by Professor H. Pittier, 340 plants of British East Africa, collected by Dr. E. A. Mearns, 103 plants of Arizona, collected by W. W. Eggleston, 373 duplicates from the Biltmore Herbarium, and 654 miscellaneous duplicates; from the United States Forest Service, 98 plants of the Shasta region in northern California, collected by William A. Dayton; from the Field Museum of Natural History, 146 plants, collected by Professor H. C. Cowles on a journey to Alaska, 63 plants of Illinois, collected by Messrs. Lansing and Sherff, 297 plants of Illinois and Indiana, as well as 120 plants of Oregon and Washington, collected by Mr. Huron H. Smith; from Professor W. L. Jepson, 83 plants, chiefly from California; from the New York Botanical Garden, 260 plants of Jamaica, collected by Mr. W. Harris, 24 plants of Cuba and 5 plants of Dominica; from Dr. J. H. Ehlers, of the University of Michigan, 295 plants of Michigan; from the Philippine Bureau of Science, through Professor E. D. Merrill, 366 plants of Amboina, collected by the late C. B. Robinson, 1061 plants of the Philippine Islands, selected with special care to illustrate and clarify Manoel Blanco's notable *Flora de Filipinas*, and 286 miscellaneous Philippine plants; from Mr. J. H. Emerton, 108 plants, collected on the course of the Hudson Bay railway in Manitoba; from the New England Botanical Club, 342 extra New England plants from the herbarium of the late Timothy O. Fuller, of Needham; from Dr. M. S. Young, 117 plants of Texas; from Professor H. N. Whitford, of the Yale Forestry School, 76 plants of Colombia, and 94 plants of Venezuela.

## II. *Acquired by purchase:*

From Mr. Pedro Jorgensen, 262 plants of the Province Andalgalá, and 80 plants of the Province Tucuman, Argentina; from Professor A. Nelson, 423 plants of Alaska; from Mr. B. F. Bush, 152 plants of Missouri; from Mr. Paul Standley, 113 plants of Florida, collected by Miss J. Standley; from the University of California, through Mr. T. S. Brandegee, 241 plants of Mexico, collected by Dr. C. A. Purpus; from Mr. C. O. Levine, of Canton Christian College, 1208 plants of China; from Mr. J. C. Nelson, 1016 plants of Oregon; from Dr. and Mrs. S. M. Zeller, 352 plants of Washington State; from Mr. Walter Fischer, 281 plants of the Rio Negro region in Argentina.

## III. *Received from field work done for the Gray Herbarium.*

Professor Fernald devoted the collecting season of 1917 to northern New Hampshire, where by further skilful exploration and discriminating collecting he secured 5791 sheets of specimens, many of which extend ranges, exhibit new species, or otherwise amplify the knowledge of the already much studied flora of the region. Professor Fernald's collection is especially noteworthy in its large and carefully selected representation of the difficult genus *Rubus*. By coöperative arrangements with the Botanical Department of the University of Wyoming Mr. J. F. Macbride, of the Gray Herbarium staff, assisted by Mr. E. B. Payson, made during the summer of 1916 extensive collections in the least known portions of the interior of southern Idaho. The interesting material from this expedition, sorted and identified according to agreement in a preliminary way at the University of Wyoming, has yielded gratifying results. The share coming to the Gray Herbarium has been received during the last academic year and amounts to 4721 sheets, including a dozen plants new to science and many extending the previously known ranges of the species. Mrs. James M. Spencer, of San Diego, California, continued her collection of southern California plants for the Gray Herbarium and secured during the year 1436 sheets. Messrs. H. M. Curran and Miles Haman, continuing their forestry explorations in northern South America and adjacent islands, were able to send to the Gray Herbarium 1389 plants of northern Venezuela and 43 plants of Curaçao. Mr. C. H. Knowlton, of Hingham, collected 100 sheets of specimens for the continuation of the *Exsiccatae Grayanae*.

The entire number of specimens received from all sources has been 46,526. There have been added to the organized portion of the herbarium 15,165 sheets of mounted specimens. At the end of

the year the number of sheets in the organized herbarium was 580,975. The number of volumes added to the library by purchase and gift has been 199. Three duplicates have been removed. The total number of volumes in the library June 30, 1918 was 17,721. The number of pamphlets added to the library was 253. There were 9 pamphlets removed for binding or as duplicates. The number of pamphlets in the library June 30, 1918 was 10,412. In the course of the year four more issues of the Card Index of New Genera, Species, and Varieties of American Plants were issued, together including 4542 cards and bringing the total of the cards in the Index to 142,986.

Mr. Nathaniel T. Kidder, Chairman of the Visiting Committee, gave to the library of the Gray Herbarium 46 botanical volumes from his personal library, including a set of the valuable series of *Monographiae Phanerogamarum* by A. and C. DeCandolle and the very rare folio edition of the *Nova Genera et Species Plantarum* by Humboldt, Bonpland & Kunth, a gift of special value in connection with the tropical work at the Gray Herbarium. Mr. Walter Deane, of Cambridge, also a member of the Visiting Committee, gave to the Gray Herbarium, from his library, 2220 botanical pamphlets as well as 409 clippings and short notices, a collection formed by extensive literary exchanges and wide correspondence carried on through a long series of years. While it has as yet been impossible to work over this valued accession to the library, it is already certain that it contains many papers not previously represented and many others which will be useful as duplicates in subject classifications. Mr. Deane has also given for deposit in the archives of the Herbarium a large number of letters of distinguished botanists, notably, Oakes, Robbins, Morong and Bebb. These contain information of considerable importance in relation to the history of botanical exploration in America.

For some years rumors have reached the Gray Herbarium that a bust or head of Thomas Nuttall, English naturalist and noted explorer, at one time curator of the Harvard Botanic Garden, had been seen in Cambridge and was probably still in existence. This object seemed of such historic interest in relation to the Gray Herbarium that the librarian was asked to make such investigation as possible. After some months of correspondence and inquiry, following out several clues, it has been possible to locate the object in the possession of Mr. Benjamin S. Osgood, who most generously gave it, through the librarian, so that it has now become a permanent possession of the Gray Herbarium. It is a life-mask in plaster

and its history has been traced with such definiteness as to establish beyond doubt its authenticity.

During the year the Curator has continued his researches on the *Eupatorium* Tribe of the *Compositae* and revised the numerous *Eupatoriums* occurring in Colombia, Venezuela, and Ecuador. In the course of this investigation it became increasingly clear that special effort should be made to improve the representation of the tropical American floras in North American herbaria, and an agreement has been reached by which the New York Botanical Garden and the United States National Museum will hereafter coöperate with the Gray Herbarium toward this end. It is believed that by such coöperation it will be possible to send out collecting expeditions with greater frequency, identify the materials secured with greater promptness, and do much to improve practical, as well as theoretical, knowledge of the vegetable resources of the American tropics.

During the year four assistants from the Gray Herbarium entered government service. Of these Dr. S. F. Blake is in civil service connected with the Department of Agriculture, Dr. Harold St. John and Mr. O. L. Raber now commissioned officers in the United States Army, the former in the Machine Gun Service, the latter in the Balloon Service, and Mr. F. C. Seymour at present an ensign in the United States Naval Reserve.

The Visiting Committee has lost by death in the course of the year two of its members, Dr. George G. Kennedy, whose notable devotion to the Herbarium has been described above, and Mrs. William G. Weld of Boston, for eight years also a loyal and helpful member of the Committee, a contributor to the reconstruction of the Herbarium building, and generous friend of its scientific activities.

The Visiting Committee again issued its annual circular in the interests of the Herbarium and 77 gifts for present use were received, as recorded in the report of the Treasurer. It will be readily understood that many of the expenses of the Herbarium, notwithstanding every possible care to economy, have been greatly increased by the war conditions; thus, fuel, lighting, mounting paper, chemicals, and practically all supplies of the establishment, as well as the expenses of printing, transportation, etc., have advanced by a considerable percentage. These gifts for present use, supplementing its regular income, have, however, enabled the establishment to complete the academic year without deficit, and the loyalty of the staff and the readiness of the remaining members

to undertake the work of those who have been called away has permitted the determinative work, the growth and care of the collections, and the output of publication to continue to a gratifying extent. In the course of the year 52 scientific papers and minor articles on systematic botany have been published by the staff and by the advanced students working at the Gray Herbarium.

B. L. ROBINSON, *Curator*.

## THE BOTANIC GARDEN

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — As Director I have the honor to submit my ninth annual report on the condition and progress of the Botanic Garden. This report covers the year ending June 30th, 1918.

The severity of the winter caused many losses among plants that have been perfectly hardy heretofore, and killed to the ground large specimens that had survived other exceptional seasons. The collections below the terrace have been maintained in excellent condition notwithstanding the serious labor shortage that has been a constant source of anxiety to Mr. Cameron.

Throughout the summer of 1917, and the spring of 1918 the garden was enriched by new stock added to complete or amplify the representations of botanical groups that are of special interest to students. Through exchanges, purchases, and gifts the additions of species new to the collection have been larger than in any previous year within the experience of the present Director. By exchanges with the New York Botanical Garden, the Missouri Botanical Garden, the Brooklyn Botanical Garden and the Botanic Garden of Smith College many treasures have been brought to the greenhouse collections that will prove helpful in the realm of botanical instruction and illustrate admirably the range of diversity characteristic of many important genera of plants.

In December the shortage of coal threatened to put an end to the tropical species preserved in the greenhouses. On the last day of the month the situation was critical, the supply of coal having dwindled to a few shovelfuls. Fortunately the danger was removed by prompt action on the part of the coal company, but the danger point was reached again and again before the necessity for artificial heat had passed.

In January, at a time when anxiety caused by the fuel situation had been temporarily relieved, the greenhouses of the lower range were gradually filled with illuminating gas which entered by infiltration from a broken supply pipe that leads to the laboratory. The gas worked insidiously, and by the time its presence was detected and its source discovered many plants had begun to drop their leaves. The entire collection in fact seemed to be threatened

with slow but sure extinction. Some specimens that appeared at first to have been immune to the influence of the gas began to turn yellow a month after exposure and eventually suffered complete defoliation. By the beginning of May the greater part of the affected plants had recovered, thanks to the skillful care of Mr. Cameron, and what at first promised to be a calamity proved to be nothing more serious than a temporary set back.

Although the garden has always been open to the public between the hours of sunrise and sunset, it became necessary in late April to make this rule effective through the use of gate locks.

On land adjoining the Garden residents of Cambridge, as a war measure, have raised vegetables under the direct supervision of Mr. Cameron. The results of this enterprise have been gratifying. To aid the users of the land in carrying out their projects a small model vegetable plot was established near the greenhouses that could be readily examined and imitated. It is a pleasure to be able to record this additional service of the Botanic Garden to the community.

Throughout the summer the Director continued his experiments with economic plants that are adapted to the New England climate. A large amount of work remains to be done in connection with economic plants that are usually regarded as beyond the scope and purpose of our agricultural schools and colleges. Such work may properly be undertaken in a botanic garden, and should prove productive of valuable results in connection with intensive utilization of waste lands. Results so far obtained indicate that there is hope of success in the cultivation of plants that ordinarily have been thought to be unsuited to our climatic and labor conditions.

Supplies of specimens for laboratory exercises and research purposes have been furnished to members of the Botanical Department in Cambridge, to the Bussey Institution of Applied Biology, and to Radcliffe College.

During the past year material unobtainable elsewhere in condition for use was furnished to Dr. Osterhout for researches in chemical warfare undertaken at the request of the Government.

The Garden laboratory has been devoted to investigations in the drying of vegetables and to the usual lines of botanical research conducted by Dr. Osterhout and his assistants.

Valuable material for our economic collections and for investigations connected with the anatomy of tropical woods has been received from the Harvard Experiment Station in Cuba. This station, which is maintained through the kindness of Mr. E. F.

Atkins, is at present one of the most important tropical gardens in North America and is rich in named materials assembled from the tropics of both hemispheres. Within recent years concentrated attention has been devoted at the station to the improvement of sugar cane and forage crops, but the opportunities for research in other departments of tropical botany are extraordinarily ample. Mr. R. M. Grey, the Superintendent of the station, has produced many interesting and noteworthy novelties, among them sugar cane hybrids that are most promising when compared with the standard canes of Cuba. It would seem highly desirable to utilize the resources of the station for the benefit of students who may be interested in investigations among tropical plants. Present conditions indicate that intensive study of the products of tropical America will become more and more necessary as our relations with Central and South America expand after the war. The Experiment Station in Cuba offers opportunities for botanical studies that a properly qualified research student might well utilize in the rounding out of his preparatory career for tropical service.

OAKES AMES, *Director.*

## THE BOTANICAL MUSEUM

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — I have the honor of presenting the following report on the condition of the Botanical Museum during the academic year 1917-18.

As an important duty the management has endeavored to contribute a large amount of space in the exhibition rooms to the display of new kinds of food-plants, accompanying the specimens by descriptive labels showing approved methods of utilization. These exhibits have attracted a fair amount of attention and they are believed to have been of considerable use in this community. In a few instances, the exhibits have illustrated the excellent popular monographs issued by the Department of Agriculture at Washington, D. C., but the scanty means at command have much restricted this important work. Moreover, the space which would have been made available for more extensive exhibits of this character is still occupied by college classes now prevented by war conditions from moving into rooms at Pierce Hall.

A certain amount of room has been assigned to the best plant substitutes in other classes of economic products. The explanatory labels have been made as full as possible. For many of the best economic specimens received during the year the Museum has been again indebted to Mr. Howard M. Ballou.

The death of our excellent label printer, Mr. Kingman, of Wakefield, made it desirable for us to provide the Museum with an adequate printing outfit. The printing of exhibition labels requires a greater amount of patience than is usually found in even the best job offices. For many reasons besides this, it was decided to incur the expense of a press and fonts of suitable type. The administrator of Mr. Kingman's estate offered the Museum favorable terms for the entire printing outfit which Mr. Kingman had used so successfully. The equipment was transferred to a convenient room in the basement of the Museum, and satisfactorily installed. Adequate electric light was introduced, and the whole plant was placed in the charge of Mr. Louis C. Bierweiler, who has served as Museum assistant since September, 1901. The result has been wholly satisfactory. Mr. Bierweiler soon was able to

produce labels of high grade and with less loss of time than was formerly consumed in communicating with the printing plant at Wakefield. A good proportion of his work approaches in character some of the best labels made by Mr. Kingman.

The second issue of the pamphlet descriptive of the Ware Collection of Blaschka glass models of plants in flower was placed at the service of the Museum attendants early in the year, and has been wholly exhausted. It is proposed to print a third issue with certain additions, notably a list of plant families and the genera which the collection illustrates. No word has been received from the artist, Mr. Blaschka, since his statement very early in the war, that he had certain specimens ready for shipment. It is impossible at this time to ascertain anything regarding Mr. Blaschka or his studio. When correspondence ceased, the Museum had a large pecuniary credit in the artist's hands, being pay in advance for specimens under construction. A few of these specimens had been completed and are now presumably in Mr. Blaschka's home. Early in 1914 they were said to be ready for shipment, and they would have been despatched to Cambridge had it not been for the wish of the artist to finish a series which he had undertaken a short time before. As was stated in the last annual report, there are now only a few gaps to be filled in the exhibits of the different plant families. The groups which illustrate the insectivorous plants and those which display the mechanism of cross-pollination are practically complete.

In the early months of the past academic year, it became evident that some of the exhibition cases must be repaired, although they were of very high grade and in perfect condition when built twenty years ago. Examination showed that some of the larger cases would have to be taken apart and reconstructed, a task which involved great skill in cabinet making. During this process of rebuilding and refitting, it became necessary to restrict the admission of the public to no little extent, but the exclusion was made as short as possible. The inferiority of wooden cases to those constructed of steel has been shown in the main exhibition rooms and also in one of the large storerooms. In this storeroom filled with extremely valuable duplicates, there has been an invasion by mice, of such a sudden and extensive character that hundreds of valuable specimens have been irrecoverably lost. In a large number of instances, the mice ate the labels, rendering the material almost useless, but the most disastrous havoc was made in the collections of cereal grains and fibres. For some years the Museum has been

engaged in placing its authentic specimens in glass containers, and in this way it escaped a more serious catastrophe than would have fallen on it if the specimens had been exposed.

It is gratifying to report that the relations between the Museum and the establishment at the Bussey Institution and the Botanic Garden, under direction of Professor Ames, have been intimate and pleasant. It is understood that the material of our Museum is wholly at the service of his Committee on Research for Botanical Raw Substances. The laboratory which Professor Ames has organized is a model of efficiency. It serves not only as a centre for answering the questions asked by the public in regard to the use of plants, but it serves as a training school for investigators. Between the Ames Laboratory at the Bussey and the Botanical Museum in Cambridge, facilities are now freely offered for placing the treasures in economic botany at the service of the community.

Attention has been frequently called in the annual reports of the Botanical Museum to the use which is made of the exhibition rooms by the teachers in some of the schools in Cambridge and vicinity. Although, owing to unusual conditions, it became necessary to close the rooms for a time, the Museum has been visited by teachers accompanied by their pupils almost as much as in previous years. It has been pleasant to observe the skill with which the teachers have made use of the exhibits, and the decorum which characterizes the pupils. The instruction which has been given by the teachers has been of a high order, and there can be little question that the classes have derived much benefit from attendance. At the request of the teachers certain specimens have been placed at the service of the pupils, and there is abundant evidence to the effect that these illustrations have been wisely employed. The museum is glad to make use of every means of aiding the schools and their teachers.

In a convenient room in the basement of the Museum, the large collection of fossil plants has continued to receive the skilful care of Dr. Robert T. Jackson. He has used his remarkable powers as a museum organizer in arranging and classifying the mass of important material in such manner that trained students in this specialty can study the specimens with the least loss of time. Dr. Jackson places the University under great obligations by his assiduous oversight.

It was found impracticable to have the usual formal meetings of the Overseers' Committee on the Botanical Museum, during the last academic year, but the Curator kept in touch with the individ-

ual members of the Committee, and obtained from them much aid in numerous ways. Several difficult questions of policy were answered by them as occasion required, but no appeal for funds was made to them or to the public. The very modest expenses of the Museum were met by anonymous contributions, one of the larger gifts being a sum which enabled the year to close without a deficit. The contribution just referred to came from a graduate whose advice has been invaluable.

For the present, while affairs are everywhere in such a disturbed condition, it is not the intention of the Curator to ask the public for the invested funds needed for the maintenance of our Museum.

GEORGE LINCOLN GOODALE.

## THE ARNOLD ARBORETUM

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — I have the honor to submit the following report on the progress and condition of the Arnold Arboretum during the year ending June 30, 1918.

Charles Edward Faxon, Assistant Director of the Arboretum, died suddenly on February 6th. Mr. Faxon joined the staff of the Arboretum in May, 1882, to take charge of the library and herbarium, which he managed successfully until his death and which he saw grow from insignificance to importance. For these duties he was equipped with a critical knowledge of the New England flora and a facility for acquiring languages which enabled him to read currently those of nearly every country of Europe. It is, however, as a botanical draftsman that Faxon is most distinguished. During his connection with the Arboretum 1920 of his drawings were published. With few exceptions they illustrate works on trees which have been prepared here. His drawings unite botanical accuracy with graceful composition, and the skill of his pencil has placed him among the very few great masters of his art whose names will live as long as plants are studied.

The Arboretum has not before suffered such severe weather conditions as it has during the year. The dry summer of 1917 was followed by the coldest winter which has been known in Boston since weather records have been kept here. The ground froze suddenly in November when it was covered with water from recent rains and did not thaw until April, and during much of the winter it was not protected by snow. There was frost here in June and a severe spring and early summer drought at a time when plants most required moisture. On the whole, however, the Arboretum has not suffered from the cold and dry weather of the year as much as might have been expected. Only a few plants have been killed outright; several have been killed to the ground but will grow again, and many which appeared hopelessly injured in the spring have come to life. It is interesting to note that the trees and shrubs recently introduced from western China have not been as seriously injured as some of the native trees of the northeastern states. During the year 254 species in 53 genera of trees and

shrubs have been transferred from the nurseries to the permanent plantations.

For many years the propagating department of the Arboretum and its principal nursery has occupied ground on Centre Street leased for the purpose from the Trustees of the Adams Nervine Asylum. This land has now been given up and a new propagating plant with a greenhouse, cold pit, and frames of modern construction, has been established on the land at the corner of Centre and Orchard Streets purchased several years ago for the purpose.

Mr. E. H. Wilson left Boston in January, 1916, to pass another year in eastern Asia for the purpose of gathering material in Korea for the Arboretum. He found this field such an interesting one that he has prolonged his stay in the East for another year to complete his studies in Korea and to visit Formosa. A number of plants raised here from seeds gathered by him in Korea in the autumn of 1917 are already growing in the Arboretum. During a visit to Formosa in the late winter and early spring he received unusual assistance from the officers of the Japanese Forest Service, and was able to reach and photograph all the great cone-bearing trees which make the mountain forests of Formosa the most stupendous in the world, excepting only those of western North America.

The botanical exploration of the Missouri-Texas region undertaken in connection with the Missouri Botanical Garden has been continued during the year; and Mr. T. G. Harbison has continued for the Arboretum his botanical investigation of the flora of the southeastern states, principally in North and South Carolina, Georgia and northern Florida. Several trees new to science have rewarded these collectors and show the importance of a more careful study of the flora of the southern United States than has before been given to it.

During the year the second and final volume of the catalogue of the library has been published. In this volume the books and pamphlets are arranged systematically under their subjects, and the library has been rearranged on the plan adopted in this volume of the catalogue. This has made it necessary to use the upper story of the herbarium wing of the Administration Building for books. The library now contains 31,525 bound volumes and 8029 pamphlets, 312 volumes and 311 pamphlets having been added during the year.

During the year 9276 sheets have been added to the herbarium, which now contains 154,876 sheets of woody plants. During the year 2658 duplicate sheets have been distributed.

The interchange of plants and seeds with other horticultural and botanical establishments has been continued during the year. Including grafts and cuttings, 6428 plants, and 1240 packets of seeds have been distributed as follows: To the United States, 6418 plants and 882 packets of seeds; to Great Britain, 10 plants and 309 packets of seeds; to France, 18 packets of seeds; to Egypt, 2 packets of seeds; to New Zealand, 1 packet of seeds; to Japan, 28 packets of seeds. There have been received 1266 plants and 179 packets of seeds as follows: From the United States, 1256 plants and 98 packets of seeds; from Great Britain, 10 plants; from Korea, 81 packets of seeds.

The usual instruction in dendrology has been given in the Arboretum by Assistant Professor J. G. Jack, who from May to June held weekly field meetings attended by sixteen students, principally teachers. Three special students have used the facilities of the Arboretum continuously through the year.

In June the fifth and final volume of the Bradley Bibliography was published. This work, which was commenced in 1900, contains the titles of books and of articles in the Proceedings of Scientific Societies and Journals relating to the woody plants of the world, in all languages, published before the beginning of the twentieth century. The five quarto volumes contain 3895 double-column pages and rather more than 100,000 titles. It was intended that this book should be paid for by the income of the fund given to the Arboretum by Miss A. A. Bradley in memory of her father, William L. Bradley, a man devoted to agriculture and interested in planting trees. The cost, however, of preparing and printing it has far exceeded the income of the fund and the annual contributions made by Miss Bradley to increase it; and this deficit has been provided for out of gifts made by other friends to the Arboretum to increase its income.

Without the interest and generosity of the members of the Committee appointed by the Overseers to visit the Arboretum, and of many other friends of the institution, it would have been impossible to have maintained this Department of the University and to have carried on its scientific activities; and I take this opportunity to express to them my thanks for the opportunities which they have given me to make the Arboretum an important dendrological station.

C. S. SARGENT, *Director*.

## THE CHEMICAL LABORATORY

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — The enrolment in the courses in Chemistry during the past year was a third less, and the number of research students two-thirds less, than last year. The missing graduate and advanced students in Chemistry will, however, almost all be found at work in the various branches of the Chemical Warfare Service of the U. S. Army.

The teaching staff has been depleted in much the same way. Professor Kohler, Assistant Professors Lamb and Jones and Dr. Conant have been on leave of absence engaged in war work. Professor Kohler has been in charge of Offense Problems; Assistant Professor Lamb, Chief of the Defense Section, Chemical Research; Dr. Conant, Chief of a Unit in the Offense Section, Chemical Research; all in the Research Division of the Chemical Warfare Service. Professor Jones has been acting as Consulting Chemist for the United States Tariff Commission at Washington.

The investigations carried on by the members of the Division not on leave have been as follows:

Professor Michael continued his study on the relation of ring formation to the length of chain in organic compounds.

Professor Richards, in collaboration with several assistants and students, carried out the following investigations: —

With Dr. W. C. Schumb he studied the refractive indices and solubilities of ordinary lead nitrate and that from radioactive sources, finding the two refractive indices and the two molar solubilities to be respectively identical, and thus adding to our knowledge of the extraordinary anomaly involved. With W. M. Craig he investigated the purification of the rare element gallium through the sublimation of its trichloride, and with Dr. J. Same-shima determined the atomic weight (70.1) of the metal in this purified compound. S. Boyer assisted him in purifying gallium electrolytically and in determining the compressibility and density of this metal, both in the solid and the liquid conditions — data of significance in comparing the fundamental properties of the elements. Preliminary notes on all these investigations are in press.

Professor Richards also carried on important chemical work of a confidential nature for the War Department and the Department of Justice.

Professor Baxter, in collaboration with Mr. C. H. Wilson, continued experiments on the electrolytic method of determining cadmium, zinc and tin by deposition in a mercury cathode. With Professor M. Kobayashi he investigated further the determination of potassium as perchlorate, and commenced a redetermination of the atomic weight of mercury by electrolysis of the dichloride with a mercury cathode. With P. F. Weatherill he determined the change in volume during solution in water of potassium chloride at a number of temperatures where evidence was lacking. Grants from the Bache fund and the Gibbs fund of the National Academy were of assistance in his work.

Professor Baxter also carried out, with the assistance of Corporal C. H. Wilson, C.W.S., U.S.A., who was detailed back to Cambridge for that purpose, a number of investigations for the Research Division of the Chemical Warfare Service.

Professor Henderson, in collaboration with the Division of Food and Nutrition of the Medical Department of the U. S. Army, studied the physical chemistry of bread and bread making. He was assisted by Lieutenants E. J. Cohn, P. H. Cathcart, W. O. Fenn, and J. D. Wachmann. During the summer Professor G. Burrows of the University of Vermont greatly aided the work as a volunteer. Professor Wolbach of the Harvard Medical School also very kindly collaborated in the bacteriological study of rOPY bread. The subjects studied included the acid-base equilibrium of the proteins, glutenin and gliadin, of gluten and of dough, and the action of electrolytes upon these substances; the physical properties of gluten and of dough; the conditions governing the fermentation and rise of dough; the baking of bread; the conditions which lead to the development of rOPY bread; and the use of serum as a substitute for gluten in bread making. At the request of the Food Administration a few experiments were also made upon the importance of sugar in bread making, and, in coöperation with the Food Administration and a committee of bakers, instructions regarding methods of combating rOPY bread were published. In collaboration with the Bureau of Chemistry of the Department of Agriculture observations were made on the effect of bleaching upon the properties of flour.

Dr. Hill after Professor Kohler's departure assumed direction of a number of problems then under way. They were as follows:

With W. G. O. Christiansen, the chlorination of dimethyl sulphate; the preparation of ethylene chlorhydrine; the oxidation of 2,4 dinitro toluene; the catalytic oxidation of ethyl alcohol to acetic acid. With J. B. Abrams and J. N. Aronson, the preparation of para dimethyl amino benzaldehyde.

Professor Richards received another grant of \$2700 from the Carnegie Institution of Washington for a continuance of his work.

ARTHUR B. LAMB, *Director*.

## THE JEFFERSON PHYSICAL LABORATORY

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — During the past year the regular teaching work of the Department of Physics, in its higher regions, was seriously restricted by the absence of Professors Pierce, Lyman, Davis, and Bridgman, but most of the courses in the lower and middle groups were vigorously maintained in spite of the fact that several of the assistants and instructors were called away for Government service during the year. Research work was very greatly reduced, being limited almost entirely to investigations in Sound, carried on by one or two undergraduates under the direction of Professor Sabine, two researches in photoelectric fields by one Chinese student and one Japanese student working under Professor Duane, and a study of the latent heat of vaporization of gasoline made by Dr. Blackwell for the Government service. In addition, the facilities of the Laboratory were used for purposes of investigation by two or three officers sent here by the Government to study a certain problem relating to poisonous gases.

This year also it has seemed advisable, as it did last year, to postpone the usual binding of the recently printed "Contributions," although sufficient material for a good sized volume is now on hand. It is to be hoped that next year the practice of issuing our "Contributions" in collected form will be resumed.

The Friday Conferences on topics of special interest to physicists, which had been maintained with so much profit to the Department during the years 1915-16, 1916-17, were discontinued during the past year, but the weekly Colloquium was maintained.

EDWIN H. HALL, *Acting Director.*

## THE CRUFT LABORATORY

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — During the year 1917-18, the facilities of the Cruft Laboratory have been devoted almost entirely to Government work. Professor G. W. Pierce, the Director of the Laboratory, has been on leave of absence, being in charge of the experimental work for the Navy at the Naval Experimental Station, New London, Conn. Much research work has been undertaken by Professor E. L. Chaffee and Mr. R. F. Field, in the construction of special radio equipment for the Signal Corps and the Navy, the detailed accounts of which cannot be presented at the present time.

Other researches carried on by them were: Gaseous Detectors; the Hot Cathode Braun Tube; Space Models of Current Amplitudes in Coupled Circuits; the High Frequency Resistance of Coils. During the summer, Mr. B. O'Brien of Yale University investigated the problem of Amplitude Modulation at Telephonic Frequencies.

While the Naval Radio School was growing rapidly in the fall of 1917, the machine and carpentry shops were used by the naval personnel, and day and night watches were maintained by them in the radio receiving station of the laboratory. The building itself was under guard. During the present year, this use of the Laboratory has gradually decreased, as other college buildings were acquired by the Radio School, until now only the towers and connected antennae are at their disposal.

At the request of the Signal Corps in February, an eighteen weeks' course in Advanced Radio Telegraphy was given jointly by Professor E. L. Chaffee and Mr. R. F. Field at the Laboratory, and Professor A. E. Kennelly at the Institute of Technology, to Seniors in Electrical Engineering or Physics, as the technical preparation for induction into the Signal Corps. Seventeen students entered the course. It was repeated during the summer for ten students, Mr. W. T. Haines giving the work of Professor A. E. Kennelly.

E. L. CHAFFEE, *Acting Director.*

By R. F. FIELD.

## THE PSYCHOLOGICAL LABORATORY

### TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — There was about a fifty per cent decrease in the number of students in the advanced lecture courses during the past year. The introductory course, however, was attended by the same number as the previous year. The advanced research course had an enrolment of fourteen students, which is a very slight decrease over normal times. The courses in Comparative Psychology were omitted. Professor Holt gave a new course in Social Psychology.

In connection with the war work, Dr. Troland planned an instrument for continuous choice reactions, which was used for testing purposes at the Aviation Ground School. Mr. R. E. Tulloss analyzed the method of instruction at the Harvard Radio School, and made several useful suggestions regarding the material used in sending and the system of rating the progress of the students.

Dr. H. E. Burt studied the effect upon the organism of various colored lights.

The following investigations in Human Psychology were conducted during the year under the direction of Professor Langfeld: Mr. K. E. Appel completed a study of the factors underlying the change in perspective of a two dimensional figure, and developed, under the direction of Dr. Troland, an instrument for photographing the eye movements. Mr. R. E. Tulloss completed an extensive study of the learning curve in typewriting and telegraphy. Mr. C. H. Woolbert finished his investigation of the psychological conditions of public speaking. These last three men were granted the Ph.D. degree. Mr. R. A. Cutting continued his experiment upon the inhibition of will impulses. Mr. S. D. Robbins added some new features to his investigation of the relation of emotion to speech defects. Mr. S. C. Roth studied the best methods of teaching signalling in the Army. Miss K. Day started an experiment upon the relation of aesthetic judgment of color to perception. Miss E. Hincks investigated the rôle of the imagination in the description of aesthetic objects.

In Educational Psychology, under the direction of Professor Dearborn, two investigations were conducted throughout the year; one by Mr. E. A. Shaw on "Construction Tests of Mental Abil-

ity " was completed and the results presented as a doctor's thesis in the Division of Education; the other by Miss E. Lord on " Non-Readers — in School, with Particular Reference to Cases of Congenital Word-Blindness," was carried out in the first half-year under the direction of Professor Holt, and in the second half-year under the direction of Professor Dearborn. An experimental study of the " Correlations Between Standard Reading Tests " was begun in the second half-year by Mr. R. W. Westcott.

The materials and apparatus of the laboratory were used as hitherto for demonstrations and class experiments in the courses in Experimental Psychology, and in Educational Psychology and Mental Development during the academic year and in the Summer School.

HERBERT S. LANGFELD, *Acting Director.*

## THE OBSERVATORY

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — Two astronomical events have excited much popular interest during the past year. They furnish excellent examples of the policy of the Observatory — coöperation and thrifty management. The first of these events was the appearance of the New Star in the constellation Aquila, first seen on June 8, 1918, the second, the Total Eclipse of the Sun, the same day. The Observatory at once sent out cablegrams and letters, requesting observations of the brightness of the New Star, not only to Europe and America, but also to our correspondents in Africa, Japan, Australia, New Zealand, and the Sandwich Islands. As a result, including a few published observations, we have received 2094 estimates from 90 observers. Measures have been obtained on every night since its first appearance, and on many days when it was below the horizon in America. Thus, for the first time, a nearly continuous watch has been kept of a celestial object by a chain of observers extending around the Earth. Photographs taken here show its existence before its discovery, from May 22, 1888, to June 3, 1918. During this time it underwent slight variations in light. Three photographs on June 7, 1918, showed it of the sixth magnitude, about one hundred times its original brightness, and during the next day it again increased about two hundred times.

Eclipse expeditions are expensive with a prospect, if cloudy, that no results will be obtained. Even if clear, the result seldom justifies the cost. Accordingly, no expedition was sent at the expense of the Observatory. As, however, Miss Cannon desired to see the eclipse, a wooden photometer was furnished her, but, owing to clouds, results of importance were not secured.

Excellent results are being obtained from the two astronomical Fellowships. Some of these results are published in H.A. 84, Nos. 1, 2, and 3, and much more material is nearly ready for the printer. The Charles S. Hinchman Fellowship has been established by the generous gift of Mrs. Hinchman, and is now filled by Miss Mary D. Applegate. Miss Dorothy W. Block is the Edward C. Pickering Fellow.

The liberal coöperation of Professor Plaskett, mentioned in my last report, promises results of the greatest value. Excellent photographs taken with the 72-inch Telescope have been sent here,

which show that they will serve to determine the brightness of the faintest stars. We can thus materially extend the usefulness of this great instrument.

#### HENRY DRAPER MEMORIAL

The Henry Draper Catalogue has made good progress under the supervision of Miss Cannon. It has been printed and distributed as far as  $4^{\text{h}} 00^{\text{m}}$  in right ascension; it is in type as far as  $9^{\text{h}} 00^{\text{m}}$ ; the copy is completed as far as  $12^{\text{h}} 00^{\text{m}}$ ; the remainder is written and is nearly ready for the printer. To complete it, the "Remarks" must be written, and the photographic magnitudes determined.

Numerous requests for the results of this Catalogue have been received from astronomers in all the principal countries of Europe and the United States. The number of spectra sent in advance of publication exceeds 37,000. It will save time in supplying this material if the positions of the stars for 1900, or their identifications in the *Durchmusterung*, are given.

Numerous photographs of the spectra of Nova Monocerotis and of Nova Aquilae, No. 3, have been taken with the 8-inch Draper Telescope and 24-inch Reflector. With the latter instrument, plates stained with pinacyanol have been used, showing the H $\alpha$  line.

The photographic observations at Cambridge have continued under the supervision of Professor King. The number of plates taken with the 24-inch Reflector is 179, making 2,109, in all; with the 16-inch Metcalf Telescope, 1,694, making 15,323, in all; with the 10-inch Metcalf Telescope, 1,501, making 2,513, in all; with the 8-inch Draper Telescope, 193, making 39,487, in all; with the 1-inch Cooke Anastigmat, 1,330, making 20,550, in all; with the 0.5-inch Voigtländer, 1,328, making 17,602, in all. The total number of plates exposed was 8,052, of which 7,155 were photographs of the stars. Adding to these the photographs taken in Arequipa, the total number of plates taken since 1884 is approximately 273,472. Among them, 173 good plates for determining the position of the Moon, 5 of Uranus, and 5 of Neptune have been obtained. Besides these, 897 enlargements, copies, etc., have been taken, making 29,743, in all. Measures of the light of the sky have been continued, especially during the period of coal shortage, when many street lights were extinguished. To save coal, the main building of the Observatory was closed for several weeks.

## BOYDEN DEPARTMENT

The Arequipa Station has continued under the charge of Mr. L. C. Blanchard, who has carried on a large amount of work without assistance. The principal work of the Bache Telescope has been taking the photographs in series needed to determine the photographic magnitudes of southern stars. This instrument has now been replaced by the 10-inch Metcalf Telescope, which gives much better images and a larger field. It is expected that results of great value will thus be obtained. The number of plates taken with the 24-inch Bruce Telescope is 86, making 11,808, in all; with the 10-inch Metcalf, 219, making 2,732, in all; with the 8-inch Bache, 1,445, making 53,082, in all; with the 1-inch Cooke Anastigmat, 837, making 14,466, in all. The total number of photographs of the stars is 3,355.

The Mandeville Station of the Harvard Observatory has continued under the direction of Professor W. H. Pickering. A considerable portion of the time of the 11-inch Draper Refractor was given to the study of Mars, in connection with the work of the other members of the International Association, and a reasonable non-artificial explanation of the formation and seasonal shifting of the more prominent canals has been found. Three reports, Nos. 18, 19, and 20 have been issued, and a fourth is now under preparation. An investigation of the shifting bright areas in the lunar crater Plinius, and of the changing visibility of the minute craters in Plato has been made. Further measures of the colors of the stars and planets have been secured, and a further study made of the telescopic indications of the approach of distant hurricanes.

The zenith equatorial for the rapid determination of the seeing has been completed, and it is found that the instrument can be opened, a zenith star found, the quality of the seeing determined, and the instrument closed, without undue haste, in an interval of three minutes. This instrument is particularly useful in connection with planetary observations, where a high quality of seeing is demanded. A study of Daylight Seeing at different hours for solar observations has also been made with this instrument. Numerous observations of the Gegenschein and Zodiacal Band have been secured. A number of observations of the brightness and color of Nova Aquilae were made, and its maximum brightness determined under rather favorable conditions, owing to the possibility of comparing it with our recollections of Canopus, which was only slightly fainter, and which rises well above the southern horizon in the winter season.

## BLUE HILL METEOROLOGICAL OBSERVATORY

The observational and routine work has been carried on during the year, and a series of thirty-two consecutive years of data made available through the published summaries in H.A. 83, Part 2. Actual and sensible temperature, pressure expressed in units of force, humidity, wind direction and velocity, night cloudiness, rainfall, snowfall, evaporation, and phenological phenomena showing the progress of the season have been recorded without interruption. No special papers were published although some investigations on wind as a factor in evaporation were carried on.

A summary of the mean monthly and yearly temperatures expressed in the Kelvin kilograde scale was prepared and published for the purpose of showing the saving in composition and the gain in accuracy as compared with the Fahrenheit scale. This is of importance in the presentation of climatological data; and in this, as in other matters, Blue Hill Observatory is playing the rôle of pioneer. It is essential that in all upper air work a scale of this nature be used owing to the frequency of occurrence of temperatures below the freezing point of water. In the Kelvin kilograde scale the zero is the absolute zero and the freezing point of water under standard pressure 1000. No degree symbols are used, that symbol being reserved for angular measures.

Much educational work was accomplished for the benefit of the United States Navy in the way of training young officers in Aerography. Fifty ensigns have taken the course. Professor McAdie was absent on foreign service for about six months.

## PHOTOGRAPHIC MAGNITUDES

The determination of photographic magnitudes on the International Scale has continued under the supervision of Miss Leavitt. Series of twelve plates each, two being on the North Pole, are taken, and a diffraction grating over the objective gives an independent measure of the magnitude. The number of series taken with the 10-inch Metcalf Telescope is 44 with blue light, and 24 with yellow light. The corresponding numbers taken at Arequipa, with the 8-inch Bache Telescope, are 87 with blue and 34 with yellow light. The principal work now in progress with these photographs is the determination of the magnitudes of sequences for the regions adopted as standards by the Committee of the International Chart of the Sky, for Kapteyn's Selected Areas and Special Areas, and for a large number of regions near clusters,

novae, variables, and other objects of special interest. About 72,000 estimates have been made of the brightness of stars in standard sequences and catalogues, and 18,000 of twenty-six novae and variable stars.

### VARIABLE STARS

Professor Bailey has completed his study of four of the globular clusters,  $\omega$  Centauri, and Messier 3, 5, and 15. A beginning has been made of the study of the thirteen other clusters which are known to contain variable stars. The total number of distinctively globular clusters is 77, and it appears probable that the list is essentially complete, as no others have been found during the last half century. Unfortunately, 44 of these are south of  $-25^\circ$ , and only 33 are north. About fifty photographs of each cluster are desired for a satisfactory study of the variables. With a large reflector, suitable photographs can be obtained in five or ten minutes. The erection of such an instrument in the southern hemisphere is an urgent need. Its work during a single night would provide material for months of study.

With the polarizing photometers attached to the 15-inch Equatorial, Mr. Leon Campbell has made 9,352 settings, including 2,752 on the asteroid Eunomia, 400 on Iris, 1,152 on Uranus, 1,488 on the new star in Aquila, and 258 on the satellites of Jupiter on five nights while undergoing eclipse.

By friendly coöperation, the observation of variable stars has been greatly extended. Mr. C. L. Brook has sent us important results of observations by the British Astronomical Association. The work has been extended to the variables when faint by Professor S. A. Mitchell, Director of the McCormick Observatory, and Professor H. C. Wilson, Director of the Goodsell Observatory. Excellent results for southern stars, hitherto much neglected, have been obtained through Mr. J. F. Skjellerup from the Cape Astronomical Society, Mr. Baldwin, Director of the Melbourne Observatory, and Professor Dawson, of the La Plata Observatory. The total number of observations is 2,589. The American Association of Variable Star Observers has contributed 16,113 observations. In all, 22,478 observations have been made or received here, distributed as follows:—

W. J. Luyten, 4,289; L. Campbell, 1,744; H. A. Bancroft, Jr., 1,637; C. Y. McAteer, 1,433; T. C. H. Bouton, 1,330; J. F. Skjellerup, 974; B. H. Dawson, 830; G. B. Lacchini, 804; Ed. de Perrot, 743; M. A. Hawes, 708; A. W. Long, 615; McCormick Observatory, 592; C. T. Whitehorn, 558; E. H. Vogelenzang,

550; A. S. Young, 425; L. Peltier, 418; H. W. Vrooman, 391; S. C. Hunter, 340; C. S. Mundt, 340; G. Houdard, 319; D. B. Pickering, 291; H. C. Wilson, 257; W. J. Delmhorst, 213; W. P. Meeker, 207; J. M. Baldwin, 170; W. T. Olcott, 153; A. B. Burbeck, 148; M. H. Vann, 129; D. W. Block, 115; A. T. Bolting, 109. Besides these, 634 observations were communicated by twenty observers, each of whom made less than 100 estimates.

In addition, the following have contributed observations of the Nova in Aquila: —

E. E. Barnard, 151; L. Lapaz, 93; F. de Roy, 80; N. V. Ginori, 50; R. E. DeLury, 48; F. P. Leavenworth, 44; J. C. Duncan, 44; J. A. Pearce, 41; W. Beal, 41; V. Francis, 38; G. O'Hare, 33; J. Paci, 29; S. A. Rhorer, 28; O. Mach, 26. Besides these, 267 observations were contributed by 38 observers, each of whom made less than 25 observations.

#### MISCELLANEOUS

*Phillips Library.* — The Library of the Observatory has been increased by 172 volumes and 2,165 pamphlets. As 832 pamphlets have been bound in volumes, the present extent of the library is 15,244 volumes and 36,844 pamphlets.

*Telegraphic Announcements.* — Fourteen announcements of astronomical discoveries have been sent to astronomers in Europe and South America. Code messages are not permitted by the censors and, accordingly, orbits and ephemerides cannot be sent. It is requested that announcements be sent here, as usual, cablegrams addressed "Observatory, Boston," and telegrams, "Harvard College Observatory, Cambridge, Mass." They will be given as wide a distribution abroad as practicable. Our telegrams are sent at cost to all who wish for them.

Twenty-four Bulletins have been issued, making 669, in all. The restriction in cablegrams gives them an increased value. They are printed promptly and not only contain all the telegraphic announcements, but much additional information sent for that purpose. They are sent without charge to all receiving the telegrams, and at a price less than cost to all others desiring them.

*Publications.* — During the last year, Volumes 79, Part 1, Observations of Three Hundred and Twenty-Three Variable Stars of Long Period during the Years 1911-1916; 80, No. 10, Eclipses of Jupiter's Satellites; 80, No. 11, Photographic Determinations of the Position of the Moon; 80, No. 12, The Light Curve of W Virginis; 80, No. 13, Magnitudes of the Cape Photographic Durch-

musterung, No. II; 83, Part 2, Observations and Investigations made at the Blue Hill Meteorological Observatory in the Year 1917; 84, No. 3, Six Circumpolar Variables; 91, The Henry Draper Catalogue, 0<sup>a</sup>, 1<sup>a</sup>, 2<sup>a</sup>, and 3<sup>a</sup>, have been distributed. Volumes 78, Part 3, Variable Stars in the Cluster Messier 15; 81, No. 1, Proper Motions of the Stars in the Zone  $-9^{\circ} 50'$  to  $-14^{\circ} 10'$ ; 82, No. 1, The Harvard Station in Jamaica; 82, No. 2, Measures of Close Double Stars with a Small Telescope; 92, The Henry Draper Catalogue, 4<sup>a</sup>, 5<sup>a</sup>, and 6<sup>a</sup>; 93, The Henry Draper Catalogue, 7<sup>a</sup> and 8<sup>a</sup>, are partly in type or at the printer's. The number of the Durchmusterung of Selected Areas, now being printed in Holland, has been changed from 85 to 101. The set of Annals from 1 to 80 is, therefore, complete and distributed with the exception of 79, Part 2. Volumes 83, Parts 1 and 2, 84, Nos. 1, 2, and 3, and 91, are also published. Nine circulars have been issued, whose numbers, titles, and dates are as follows:—

- 202. Maxima in 1918 of Variable Stars of Long Period. November 30, 1917.
- 203. Asteroids Bright in 1918. January 9, 1918.
- 204. Nova Persei, No. 2. 032443. December 18, 1917.
- 205. The Distance of the Great Nebula in Orion. December 19, 1917.
- 206. The Distance of the Pleiades. The Distance of Coma Berenices. March 5, 1918.
- 207. A New Variable Star of Short Period,  $+37^{\circ} 47'17$ , H. V. 3435. June 10, 1918.
- 208. The New Star, 184300, Nova Aquilae, No. 3. July 23, 1918.
- 209. The Spectrum of Nova Monocerotis, 072106. September 17, 1918.
- 210. Illustrations of Nova Aquilae, No. 3, 184300. September 17, 1918.

EDWARD C. PICKERING, *Director*.

## THE BLUE HILL OBSERVATORY

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — The past year was probably the most eventful in the history of the Observatory. The war emphasized the importance of a knowledge of what was formerly called meteorology. This term, always awkward and by no means properly defining study of the structure of the atmosphere, has been replaced by the word Aerography. The difference between meteorology and aerography may not inaptly be illustrated by saying that the former is a study of the atmosphere from the standpoint of the automobilist while the latter is from the viewpoint of the aviator.

Early in the year the Director was asked by high officials of the Navy Department to undertake the organization and supervision of an Aerographic Section for the Navy in general and more particularly for the safety of Naval Aviators. He was commissioned as Lieutenant Commander in the Naval Reserve Force and began work without delay. A leave of absence was obtained, at first for three months and afterwards for six months; and in April he left for foreign service with eight young officers who had been trained at Blue Hill. Details of the methods of instruction and other matters will be omitted as belonging more properly to the Navy Department; but it may be stated that 51 selected officers have been trained, all of whom are graduates of American Universities. In all some 24 of our colleges and universities are represented in this little band, now widely scattered abroad and at home. The Observatory has thus through the circumstance of war and the needs of aviation become the center for advanced work in studying the structure of the atmosphere. The fact that there was one (and so far as is known only one) Observatory in our country where, when the need came, men could be trained, is a lasting monument to the wisdom of the late Professor A. Lawrence Rotch who founded the Observatory and carried it on for many years without encouragement.

Some experimental work has been carried on in studying evaporation and the best forms of hygrographs. Several new instruments have been designed and are being tested. The observational and routine work has been carried on without interruption; and

a summary covering a period of thirty-two years, without break, been published.

The financial condition has been materially bettered. The late Mrs. Winthrop Sargent, a sister of Professor Rotch, left the sum of \$25,000 to the Observatory. The endowment fund now amounts to approximately \$85,000 an increase of 70 per cent in the period of five years. The operating expenses were much less than in the preceding year.

Additional space is needed and it will soon become necessary to add a wing to the building. It will be the part of wisdom to provide now for the future. Courses in aerography are being given at two other institutions and it will not be long before many of our American universities will have separate aerographic observatories. Men trained at Blue Hill probably will be called to fill chairs at these institutions.

EDUCATIONAL INSTITUTIONS REPRESENTED IN THE AEROGRAPHIC  
DETACHMENT TRAINED AT BLUE HILL OBSERVATORY

Princeton . . . . .	8	Univ. Penn. . . . .	1
Mass. Inst. Tech. . . . .	5	Univ. Chicago . . . . .	1
Cornell . . . . .	5	Univ. Kansas . . . . .	1
Harvard . . . . .	4	Univ. Minnesota . . . . .	1
Amherst . . . . .	3	Univ. North Carolina . . . . .	1
Yale . . . . .	2	Univ. Washington . . . . .	1
Lehigh . . . . .	2	Univ. of Va. . . . .	2
Northwestern . . . . .	3	Williams . . . . .	1
Dartmouth . . . . .	2	William and Marshall . . . . .	1
Columbia (Mines) . . . . .	2	Wooster . . . . .	1
Columbia (Law) . . . . .	1	Denison . . . . .	1
Brown . . . . .	1	College City New York . . . . .	1
Univ. California . . . . .	1	Worcester Polytechnic . . . . .	1
Penn. State . . . . .	1		

ALEXANDER McADIE, *Director.*

## THE MUSEUM OF COMPARATIVE ZOÖLOGY

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — During the academic year 1917-18, most of the instruction in Zoölogy, Geology, and Geography offered in Harvard University and in Radcliffe College was given in the Laboratories and Lecture Rooms of the Museum.

In Zoölogy sixteen courses and half-courses were taken by 263 students in Harvard University and ten courses and half-courses were taken by 121 students in Radcliffe College.

In 1916-17 these courses and students were: —

*Harvard:* — 19 courses, 410 students.

*Radcliffe:* — 10 courses, 98 students.

In Geology and Geography eleven courses were given in Harvard University and two courses were given in Radcliffe College.

The number of students taking these courses was 372 in Harvard University and 24 in Radcliffe College.

In 1916-17 these courses and students were: —

*Harvard:* — 28 courses, 703 students.

*Radcliffe:* — 2 courses, 34 students.

In December an imperfection in the sprinkler system caused a water damage to the building and cases. Fortunately, however, the break occurred at an hour when the prompt and energetic work of the Museum force prevented serious injury to the collections.

Though the field-work and most of the activities of the Museum have been curtailed during the year, the Museum has been fortunate in having much voluntary assistance in the care and development of its collections. Especial mention should be made of the work of Mr. T. E. Penard in the Ornithological department; of Mr. E. H. Dunn who has studied and catalogued the entire collection of urodele amphibians; of Mr. G. K. Noble for his study of a large number of reptiles and amphibians from South America; of Mr. H. W. Fowler for his study of a large part of the Indian fishes received in the early seventies from Rev. M. M. Carleton; of Mr. L. W. Swett who has continued the rearrangement of the geometrid moths; of Miss E. B. Bryant for her work on the collection of Araneina; and of Professor W. H. Twenhofel who has

identified and labeled the Ordovician and Silurian fossils collected during the 1914 expedition to the Baltic.

From the Honorable W. Cameron Forbes the Museum has received an immense series of Philippine shells. Governor Forbes's gift contains many species of great beauty and rarity new to the collection, but its principal value to the Museum consists in its bulk, a million specimens is a very conservative estimate, which in many cases affords unequalled material for studies in variation.

Considerable series of invertebrate fossils, shells, insects, fishes, and birds have been received from the Boston Society of Natural History according to the plan of coöperation agreed upon in 1914. The Museum's return consists of a series of New England shells and a few representative species selected by the Curator of the Society for its general collection. The Museum's Preparators also serve the Society upon request.

The Museum is indebted to Professor W. M. Wheeler for series of ants and other insects, and of arachnids; to Mr. E. D. Harris for very many Cicindelidae; to Mr. F. C. Bowditch for additional Chrysomelidae; to Mr. B. P. Clark for a number of hawk moths; to Mr. A. H. Clark for an exhibition series of Lepidoptera (Denton mounts); to Mr. C. P. Wilson for an especially large Alligator Gar; to Mr. G. R. Agassiz for a Tarpon; to Mr. Daniel Vincent for two valuable vertebrate fossils from Gay Head, and to Mr. H. K. Balch for the heads of Moose from northern Minnesota.

The death of the Rev. Henry W. Winkley at Danvers on February 4, 1918, is recorded with regret. In June, 1906, the Museum received Mr. Winkley's large and valuable series of land shells collected in many parts of the world with the exception of New England. Since that date Mr. Winkley had shown a deep interest in the Museum collection of Mollusca and had contributed to it many specimens of value. Miss Ruth Winkley, in accordance with the wishes of her father, has given to the Museum his collection of New England shells, a collection well identified and labeled, and especially rich in minute and closely allied species.

The death of Mr. Goodwin Warner is also recorded with regret. Recently, and on more than one occasion, Mr. Warner aided most effectively in field-work carried on by the Museum. Mr. Warner at the time of his death, which occurred in France, June 29, 1918, of pneumonia, was second lieutenant, American Expeditionary Forces.

Work upon the collection of mammals has been continued by Dr. G. M. Allen, who has identified and catalogued recent acces-

sions and made excellent progress in incorporating much of the fossil material with the osteological series. This work is complete for the proboscideans and palaeotheres. The accession most worthy of note is several specimens of *Capromys nana* a small Cuban rodent. This species first described in March, 1917, was based on some fragments of jaws found in cave-deposits in a sub-fossil condition. The living individuals were secured by or through the aid of Dr. Thomas Barbour.

Mr. Bangs's constant work upon the collection of birds keeps pace with the growth and development of the same. Throughout the year, Mr. Bangs has enjoyed the coöperation of Mr. T. E. Penard to whom the Museum is also indebted for several types of Surinam birds. The notable accessions include series from the Cameroons and Hawaii (purchased), New Guinea and Cuba (gift of Dr. Thomas Barbour), and Surinam (gift of Mr. F. F. Jonesberg).

About six months of the Museum year were spent by Dr. Thomas Barbour in Cuba, during which time the interests of the Museum were advanced when not inconsistent with the duties which occasioned his stay in Cuba. Among the more important accessions to the collections of reptiles and amphibians, Dr. Barbour mentions a series of venomous snakes of Brazil (gift of Dr. Vitel Brazil), amphibians from Central Peru (gift of Mr. J. M. Boutwell), and Cuban reptiles (gift of Mr. C. T. Ramsden).

Mr. Garman's work upon the fishes, owing to the extent of the year's accessions, has been almost wholly curatorial. These accessions include, among others, collections from North America (F. W. Putnam), Japan (E. S. Morse), Hawaii (C. F. Winalow), Cuba (F. Poey), and the embryos, dissections, and skeletons, the basis of many of the classic memoirs of Dr. Jeffries Wyman. All the above were received from the Boston Society of Natural History. Collections from Michigan (gift of Professor Jacob Reighard), Bermuda (gift of Dr. E. L. Mark), and Cuba (gift of Dr. Thomas Barbour), are also noteworthy. Mr. Alvin Seale, as a temporary Assistant, has worked throughout the year upon the clupeoid fishes. He has studied not only the extensive series in this Museum but also the collections of the University of California, Leland Stanford Jr. University, U. S. National Museum, Academy of Natural Sciences of Philadelphia, and the American Museum of Natural History; the officials of these museums most courteously gave Mr. Seale every facility for his work, a work which has enabled him to examine most of the types extant in the

United States. Mr. Seale effected some interchanges of specimens advantageous to the collection of the Museum.

Large accessions have been made to the Entomological collections by gift, exchange, and by the field-work of the Curator. Mr. Banks's duties also involve assistance to the many students who consult the collection. Aside from his curatorial service, Mr. Banks has prepared papers on the termites (white ants) of the United States, of Panama, and of the West Indies. His taxonomic work also includes descriptions of new Hymenoptera, Diptera, and Neuroptera. As a recognized authority upon the Arachnida, Mr. Banks not infrequently receives collections of this class of which he has not official charge, and reports upon the same.

Though Dr. Chamberlin as Curator of the myriopods, arachnids, and worms gave a part of his year's work to each of these groups, by far the larger portion of the time was given over to a study of the chilopods and diplopods of the West Indies and the islands of the Pacific, a study which has added the types of more than 300 new species to the collection. Dr. Chamberlin has also worked over and prepared a report upon the Pacific Coast annelids collected by Mr. Agassiz in 1859-60. Several collections of arachnids and worms have been received for study and report, duplicates from which will be retained by the Museum.

Mr. W. F. Clapp has identified, labeled, and catalogued the very considerable accessions to the collection of Mollusca; these with few exceptions are distributed systematically. The Pelecypoda, exclusive of the Unionidae, have been rearranged, a work which makes the entire collection readily available. Governor Forbes's Philippine shells and the Winkley collection have been already mentioned; other important accessions include a large series of Unionidae from the Boston Society of Natural History, one hundred and twenty-six species, nearly all new to the Museum, from the University of Colorado, and many Cuban land shells from Dr. Thomas Barbour.

Dr. H. L. Clark states that more than 1,000 specimens have been added to the collection of echinoderms during the year, all of which have been identified, labeled, and catalogued. He has prepared reports, complete or partly so upon the echinoderms of South African waters and upon the holothurians and sea-stars collected during the Albatross expeditions to the tropical Pacific.

Dr. H. B. Bigelow's services for the government of the United States gave him very little time for his Museum duties as Curator of Coelenterates. He has cared for the accessions received and

studied the medusan collections and data to be used for reports on the Canadian Arctic expedition of 1913-15 and during the cruise of the *Grampus* in 1916.

Professor P. E. Raymond, Curator of Invertebrate Palaeontology, as Associate Professor of Palaeontology, gives somewhat more than half of his time to the instruction of students in Harvard University. His field work in both capacities and the work of his advanced students accrues very largely to the advantage of the collections of the Museum. During the year, Professor Raymond collected in the Ordovician and Devonian strata of Iowa, and in the Ordovician of southwestern Virginia and eastern Tennessee. From his recent collectings, Professor Raymond has secured and described a large number of new species of trilobites. He has also identified and labeled a number of trilobites belonging to several families, and has determined several collections of fossils sent for that purpose by the Geological Survey of Canada, and by Yale University. The accessions include a large series of fossils from many localities and formations, from the Boston Society of Natural History, a considerable series of corals and mollusks from the Fiji Islands, from Professor W. G. Foye, and many fine specimens from Mr. J. R. Bradley, Jr., and Mr. A. G. Becker.

Mr. R. W. Sayles, Curator of the geological collections, spent most of his time in the preparation of a memoir entitled "Seasonal Deposition in Aqueo-glacial Sediments." Toward the publication of this memoir Mr. Sayles has generously contributed the illustrations. The only addition of importance received during the year consists of 27 specimens received in exchange from the Boston Society of Natural History. A recent census of the collection gives a total of 5,850 specimens, 3,615 illustrative of dynamical and structural geology, and 2,235 specimens of economic geology.

Though the employment of a Preparator in a large museum offers little opportunity for detailed report, it consists of an endless mass of varied work, at times requiring the most skilful workmanship, and at times entailing the most monotonous drudgery. Mr. George Nelson, during the year, has mounted for exhibition vertebrates of every class, has repaired and mounted skeletons of the same, made skins of mammals and birds from fresh material, and repaired and made over old specimens of the same, and has made casts of a considerable series of unique fossil vertebrates. Mr. Nelson has also made some elaborate colored drawings and his excellent photographic work has been utilized for the illustration of Museum publications and not infrequently for the benefit of

other institutions and investigators. Mr. A. B. Fuller's time has been given over chiefly to the improvement of the research collections of mammals and birds; he has made over in a most satisfactory manner a very large number of skins. For exhibition, Mr. Fuller has mounted the young Bison received last year from Dr. W. L. Smith and for the New England collection of the Boston Society of Natural History, he has remounted the Whooping Crane killed in the summer of 1908 in Connecticut.

The Library contains 55,184 volumes and 55,808 pamphlets; 757 volumes and 3,309 pamphlets have been added during the year; these figures are according to the principle that every printed publication of one hundred pages is recorded as a volume, one of less than one hundred pages as a pamphlet.

The publications of the year include two parts of volume 43 of the *Memoirs*, fourteen numbers of the *Bulletin* and the *Annual Report*, a total of 787 (208 quarto and 579 octavo) pages, illustrated by 66 (38 quarto and 28 octavo) plates. Volume 43 of the *Memoirs*, a review of the American characins by Professor C. H. Eigenmann, will be completed in five parts with 101 plates. This *Memoir* is based largely upon the immense collection obtained by the Nathaniel Thayer expedition to Brazil. The plates are printed and the parts will be issued as rapidly as the interests of the Museum as a whole will allow. Eight numbers of the *Bulletin* contain reports on Museum collections, and three numbers published as *Contributions* from the Bussey Institution are based, wholly or in part, upon Museum collections; one number contains an account of the ophiurans collected during two of the Albatross expeditions to the Pacific carried on under the direction of Mr. Agassiz; one number contains the seventh annual report of the Harvard Seismographic Station, and another a detailed illustrated description of the Harvard deep-sea thermograph, an ingenious instrument working satisfactorily in waters of moderate depth, though as yet not tested in deep water. The eighty plates for Dr. Chamberlin's memoir on the Albatross Pacific polychaete annelids have been printed. Professor Verrill's report on the Blake alcyonarians will be illustrated by 140 plates, and this series of plates has been completed during the year as have those for two memoirs, one (10 plates), on the Albatross Dolabellinae, and one (14 plates), on the Atlantic Solenogastres.

Toward the publication of the Report of the Seismographic Station, the Corporation granted \$200.

SAMUEL HENSHAW, *Director*.

## THE ZOÖLOGICAL LABORATORY

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR,—The courses in Zoölogy offered for the year 1917-18 were, with the exception of those given in alternate years, the same as in 1916-17, and were conducted by the same instructors; but the opportunity for laboratory work in Zoölogy 8 was withdrawn. As in the previous year, and to a greater extent, the numbers in courses were affected by the war, the total number of registrations in Harvard being about thirty per cent less than in 1916-17.

Tables I and II give the statistics regarding each of the courses in Harvard and in Radcliffe College, respectively.

TABLE I

Courses 1917-18	Graduates		Sen.	Jun.	So.	Fr.	Unc.	CoC.	Sp.	Tr. Md.	Bussey Instn.	Total
	A. & S.	Ap. S.										
Zoölogy 1	3	..	18	20	28	41	..	..	1	1	..	112
" 3	4+ 4	0+1	5	8	15	7	3	1	2	..	..	45+ 5
" 4	1	0+1	4	1	1	1	..	..	..	..	..	8+ 1
" 5b	4+ 1	..	1	1	1	1	1	..	..	..	..	9+ 1
" 7a	1	..	..	1	2	..	..	..	..	..	..	4
" 7c	1	..	..	..	1	..	..	..	..	..	..	2
" 8	6	..	7	7	7	..	3	1	..	..	..	31
" 12	6+ 2	..	..	..	..	..	..	..	..	..	..	6+ 2
" 14a	5+ 1	..	5+1	..	1	1	..	1	..	..	0+1	13+ 3
" 17	5	0+1	1	..	..	..	..	..	..	..	..	6+ 1
" 20a	3	..	..	..	..	..	..	..	..	..	..	3
" 20b	1	..	..	..	..	..	..	..	..	..	..	1
" 20c	2	..	..	..	..	..	..	..	..	..	1	3
" 20e	4	..	..	..	..	..	..	..	..	..	..	4
" 20f	1	..	1	..	..	..	..	..	..	..	..	2
" 20g	1	..	1	..	..	..	..	..	..	..	..	2
Sums.....	48+8	0+3	43+1	38	56	51	7	3	3	1	1+1	251+13

NOTE.—Numbers in italics indicate students who attended the lectures, but were not enrolled in the course.

TABLE II

Courses 1917-18	Gr.	Sen.	Jun.	Soph.	Fresh.	Und.	Sp.	Total
Zoölogy 1.....	2	4	6	16	7	3	1	39
" 2.....	..	8	15	19	..	4	2	48
" 3.....	3	1	3	1	1	..	1	10
" 4.....	2	1	1	..	..	1	1	6
" 5b.....	2	..	1	..	..	1	..	4
" 7a.....	..	5	2	..	..	..	..	7
" 14a.....	..	2	1	..	..	..	..	3
" 17.....	..	2	..	..	..	..	..	2
" 20c.....	1	..	..	..	..	..	..	1
" 20g.....	..	1	..	..	..	..	..	1
Sums.....	10	24	29	36	8	9	5	121

The assistants in courses were as follows: — Zoölogy 1, Harvard: chief assistant, Mr. J. P. Baumberger, sub-assistants, Dr. A. J. Bigney, and Messrs. A. W. L. Bray, V. Obreshkove, C. S. Simkins, and G. K. Noble; Radcliffe: chief assistant, Mr. A. C. Kinsey, sub-assistant, Mr. R. J. Dobson. Zoölogy 3, Harvard: chief assistants, Messrs. J. M. D. Olmsted (for two weeks), and R. J. Dobson, sub-assistant, Dr. A. J. Bigney; Radcliffe: assistants, Messrs. R. J. Dobson and V. Obreshkove. Zoölogy 4, Harvard: assistants, Messrs. A. C. Walton (for four weeks) and A. B. Dawson; Radcliffe: assistant, Mr. A. B. Dawson. Zoölogy 5b, Harvard and Radcliffe: assistant, Mr. A. W. L. Bray. Zoölogy 12, Harvard: assistants, Messrs. A. C. Walton (for four weeks) and A. W. L. Bray.

Courses 7a, 7c, and 20f were given at the Bussey Institution, the others in Cambridge. Of the twelve Harvard students enrolled in Zoölogy 14a, six pursued it with laboratory work, the others as a thesis course. Of the former, one prepared a paper which has been published in the Contributions from the Laboratory. One of the three Radcliffe students took the course with laboratory work. All the Harvard students enrolled in Zoölogy 17 took the course with laboratory work; of the two in Radcliffe College, one elected to take laboratory work, the other thesis work.

The University Extension Course in Elementary Zoölogy — fifteen exercises on the comparative anatomy of selected groups of animals — was given, as usual by Professor Parker, during the first half-year. Seventeen persons were in attendance. The laboratory assistant was Mr. J. P. Baumberger.

Research work was counted as equivalent to courses as follows: — in Harvard, Zoölogy 20a and 20b, under Professor Mark, five courses; Zoölogy 20c, under Professor Parker, three and three-fourths courses; Zoölogy 20e and 20g, under Assistant Professor Rand, five and one-fourth courses; Zoölogy 20f, under Professor Wheeler and Assistant Professor Brues, four and one-half courses; in Radcliffe, Zoölogy 20c, under Professor Parker, one course; Zoölogy 20g, under Assistant Professor Rand, one-half course.

The degree of Ph.D. was conferred in June on Alden Benjamin Dawson, his thesis being entitled "The Integument of *Necturus maculosus Rafinesque*."

Opportunities for war service prevented students who had planned to spend a portion of the summer at the Bermuda Biological Station from going there, so that the Resident Naturalist, Dr. Crozier, and his family were the only occupants.

The Harvard Table at the Marine Biological Laboratory, Woods Hole, was occupied by a research student studying problems in experimental zoölogy, and the Radcliffe Table was shared by an unclassified student taking the course in Physiology, and a graduate taking the course in Botany.

The Zoölogical Club held twenty-two meetings, at which sixteen original papers and twenty-one reviews were presented.

During the year there have been published forty papers by officers and students of the Department, including those published as Contributions from the Zoölogical Laboratory, and as Contributions from the Bermuda Biological Station for Research, but not including those in Applied Zoölogy. The titles are printed in the current Report of the Director of the Museum of Comparative Zoölogy, and some of them were also printed in the University Gazette.

EDWARD L. MARK, *Director*.

## THE MINERALOGICAL MUSEUM AND LABORATORIES OF MINERALOGY AND PETROGRAPHY

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — The normal activities of this Department have been largely diverted to objects connected with the War. During 1917–18 our students one by one went into service, leaving only a handful, and laboratories and other resources were devoted to teaching military topography and map-making to the Harvard R. O. T. C., the staff assisting as far as they were able; this work was continued in the summer, and has been resumed on a still larger scale this fall for the S. A. T. C.

The new laboratories in Pierce Hall, which replaced corresponding laboratories in the Museum building, were vacated in 1918 to satisfy the needs of the Radio School and a partial reoccupation of the old laboratories carried out, the Division of Chemistry generously lending a room in the Coolidge laboratory. This Department has joined with Geology, Archaeology and Botany in giving accommodations to the Divisions of Engineering and Geology for their joint task of teaching map-making and reading, surveying, topography, etc., to large numbers of the S. A. T. C.

The Mineralogical Museum has been open as usual to the public, and a small amount of research has been carried on by the staff.

JOHN E. WOLFF, *Curator*.

## THE PEABODY MUSEUM OF AMERICAN ARCHAEOLOGY AND ETHNOLOGY

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — Notwithstanding the adverse conditions brought about by the war, the work of the Museum has progressed very satisfactorily during the year. Owing to the excessive cost of material and labor it became necessary, in September, to discontinue the casing of the new section. Four large alcove cases, however, were placed in the main hall on the first floor during the summer. These have been filled with collections from British Columbia, including the one obtained by the Museum expedition of last year. The fifth floor of the new section, assigned to African archaeology and ethnology, was taken by the Engineering Department of the University at the beginning of the year, in order to furnish additional room in their building for the Naval Radio School, and the greater part of the new hall on the first floor has been assigned to the Students' Army Training Corps as a class-room during the war.

The South American gallery, although not fully supplied with cases, was opened October 22. Here are arranged the collections illustrating the life of the native people of that continent. A considerable proportion of these specimens have never before been shown. The removal of the South American collections from the old section has given additional space for the extension of the archaeological exhibits from North America. Two rooms containing artifacts from the mounds of the Mississippi Valley, and plans, maps and photographs illustrating the earthworks of this region, were opened in May.

The extensive collection of Porto Rican antiquities presented by Mr. and Mrs. Samuel K. Lothrop has been placed on exhibition in the hallway devoted to the archaeology of the West Indies, and the remarkable textile fabrics and other objects obtained in 1916 by the Museum's Arizona expedition, from the burial caves of the Marsh Pass region, have been installed in the gallery of the main entrance hall.

In this collection are several atlatls or spear-throwers and the projectiles which accompanied them, also the peculiar grooved boomerang-like clubs which are associated with these weapons in

the sculptures and paintings of Chichen Itza, Yucatan. This form of atlatl is probably of Nahua origin and was adopted by the Mayas of northern Yucatan and also distributed northward into the southwestern United States.

The field work of the Central American expedition, under the direction of Mr. Samuel K. Lothrop, was transferred from Honduras and Guatemala to Costa Rica for a few months. Unfortunately most of the specimens obtained the previous year and stored in Guatemala City were destroyed by the earthquake. A representative collection of pottery and stone implements, however, was obtained in Costa Rica, which is now on exhibition in the Central American hall. While in Honduras Mr. Lothrop visited thirty or more of the less well-known sites of ancient cities and prepared plans of a number of the more important. Several of these mound groups are extensive and would doubtless repay a more detailed examination.

In the early part of the year the Museum's investigations in the Marsh Pass and Monument Valley regions of northeastern Arizona were again in charge of Mr. Samuel J. Guernsey, Assistant Curator of Archaeology and Ethnology. Although the plans of the expedition were somewhat hampered by the prevalence of small-pox among the Indians, ten caves and a cliff-house were explored. Valuable data and a small collection of specimens were secured. The caves showed traces of occupation by the so-called Basket-Makers.

Dr. C. F. Newcombe continued his work among the Wakashan Indians, visiting the Nootka branch of Vancouver Island. Unfortunately from an ethnological point of view, the native customs of this tribe are very rapidly undergoing modification, and little of value could be obtained relating to their old home life and ceremonies. He was fortunate in obtaining from the Quileute tribe of Washington, specimens to round out the Museum's collection illustrating the whaling customs of this tribe and the Nootka.

In June the Director visited the Indian cemetery at Madisonville, Ohio, where extensive explorations have been carried on by the Museum in years past. His purpose was to secure additional data for the preparation of final plans. He also made a survey of that portion of the Serpent Mound of Adams County, Ohio, which has been a source of contention among archaeologists.

As the greater portion of the time of several of the Museum staff has been devoted to war activities, their work in connection with the Museum has necessarily been restricted.

Dr. R. B. Dixon, Curator of Ethnology, has given such time as was available to carrying on special investigations for the State Department.

Dr. A. M. Tozzer, Curator of Middle American Archaeology and Ethnology, received the commission of Captain, Aviation Section, Signal Corps, on October 6. He was stationed at Denver, and later at San Francisco, as president of the Aviation Examining Board for these districts.

Dr. A. V. Kidder, Curator of American Archaeology, has been commissioned First Lieutenant, U. S. R. Infantry, and is now in France.

Mr. Oric Bates,\* Curator of African Archaeology and Ethnology, during most of the year has been in the service of the United States Shipping Board. Such hours as he could command for Museum work have been contributed to the preparation of the second volume of the Harvard African Studies.

Dr. Charles Peabody, Curator of European Archaeology, has been engaged in teaching Military Science to the Reserve Officers' Training Corps under the commission of First Lieutenant.

Dr. E. A. Hooton, Curator of Somatology, has given such time as could be spared from his duties as instructor in the Division of Anthropology to cataloguing and arranging the accessions pertaining to his department, and to the preparation of papers for publication by the Museum and elsewhere.

An increasing interest in the osteological exhibits and skeletal collections of the Museum has been manifested in the last year by members of the medical profession, and especially by orthodontists, many of whom have made use of the facilities for study afforded in the somatological laboratories, which are open to research students.

The rearrangement of the laboratories has added greatly to the facilities for general museum and research work, both by the Museum staff and by students in the Division of Anthropology under Dr. Dixon and Dr. Hooton. Several new instruments have been added to the outfit for the osteological laboratory.

Mr. Guernsey's aid in the general work of the Museum has been invaluable, especially in the care and arrangement of the collections and the cataloguing of new acquisitions.

Miss Gleason has completed the classifying and filing of the extensive collection of photographic prints and has given consider-

\* While preparing this report word was received of the death of Mr. Bates at Camp Zachary Taylor, Louisville, Kentucky, on October 8, 1918.

able time to the making of plans and drawings for exhibition and publication.

Through the generosity of Mr. Bates, the second volume of the *Varia Africana*, which in size and interest easily outranks the first, is now in the printer's hands. As was the case last year, several of the papers deal with material in the African collection of the Museum. The first volume of this series has been very cordially received both here and abroad.

The final report of the Museum's exploration at Madisonville, Ohio, is in course of preparation and will be issued as a part of Volume VIII of the Museum Papers.

In connection with publications of the Museum, it is of interest to note that Dr. H. J. Spinden, whose thesis for his Ph.D. degree in Anthropology, entitled "Maya Art," forms Volume VI of the Peabody Museum Memoirs, has been awarded the prize of five thousand francs of the Angrand Foundation of the Bibliothèque Nationale of Paris, for the best work on the Anthropology of North or South America issued during the years 1913-18. It is assumed that "Maya Art" is the work considered in the bestowal of this honor.

The Museum Library under the charge of Dr. Dixon now contains, according to the new rules for enumeration, 14,826 books and pamphlets. The accessions to the Library during the year were 176 volumes and 66 pamphlets. Mr. Charles P. Bowditch has continued to add to the valuable photographic reproductions of Central American and Mexican manuscripts, which now number 238 volumes. Among the more important gifts to the Library are 14 volumes and 4 pamphlets on Costa Rica from Mr. and Mrs. S. K. Lothrop. The Library has also received from the Government of Formosa and from Dr. Utsurikawa a series of volumes on the ethnology of the tribes of the island. The indexing of the periodicals has been continued. The general work of the Library has been carried on with the efficient aid of Miss Constance Ashenden who succeeded Mr. Carroll as Assistant Librarian.

The income from the Mary Hemenway Fund was used for cases for the new section and for the salary for one of the Museum staff; that of the Henry C. Warren Fund for explorations in Arizona; the income from the Huntington Frothingham Wolcott Fund for the purchase of collections from New Guinea, the Solomon Islands, Africa, and the northwest coast of America; that from the Henry W. Haynes Fund for binding books and periodicals.

The incomes from the Susan C. Warren Fund, the Francis C. Lowell Fund and the Museum's share of the E. O. and M. P. Ropes Fund were used for the general purposes of the Museum. The income of the Frederic W. Putnam Fund has since its inception been added to the principal.

The Museum has received gifts of specimens from twenty-six individuals during the year. Among the most important of these is the Porto Rican collection above mentioned, a considerable part of which is the result of explorations by Mr. and Mrs. Lothrop in the shell heaps and kitchenmiddens of the island.

Another important though small collection, the gift of Mr. Roger S. Green and Mr. Langdon Warner, was obtained by the Reverend Mr. Couling in Shantung province. The extreme rarity of stone implements from this portion of China makes the collection of special value to students.

From Mr. Lewis H. Farlow, who in past years has contributed so generously to the ethnological exhibits of the Museum, has been received a collection of baskets, knives and beadwork from the Bagobo and other tribes of Mindinao.

Dr. Benè van Rippen, upon his recent visit to South Africa, secured a number of interesting specimens from the Bushmen, which he has given to the Museum.

Through the generosity of Mr. Charles P. Bowditch, a case for the exhibition of reproductions of Mayan and Zapotecan manuscripts has been placed in the Central American hall, and Mr. Augustus Hemenway has provided a case for an Arawakan house group for the South American gallery.

Gifts of money for exploration and for specimens, for the Library, for cases and for opening the Museum Sunday afternoons have also been received. A record of these will be found in the report of the Treasurer of the University.

CHARLES C. WILLOUGHBY, *Director*.

## THE SEMITIC MUSEUM

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — Since the last annual report on the Semitic Museum the visiting committee appointed by the Board of Overseers has suffered the loss of two of its members, who gave their lives for their country. Mr. Oric Bates, 1905, died at Camp Zachary Taylor, Louisville, Ky., on October 8th, 1918, and Mr. Hervey E. Wetzel, 1911, died at the American Red Cross Hospital, Neuilly, France, October 17, 1918. These young men, the youngest members of the committee, had given ample proof of their interest in the objects for which the museum stands.

From our generous benefactor, Mr. Jacob H. Schiff, we received a gift of five hundred dollars. We have recently acquired by purchase a small collection of oriental seals, chiefly Babylonian, and a collection of seventy-one Babylonian cuneiform tablets.

Several friends of the University renewed for a term of three years their subscriptions which provide for instruction in Jewish Literature and Philosophy. The courses in this subject are, however, bracketed for the present, because the lecturer, Dr. Harry A. Wolfson, has recently entered the national service.

As a war economy, especially to conserve coal, it became necessary to discontinue opening the museum on Sundays.

DAVID G. LYON, *Curator*.

## THE FOGG ART MUSEUM

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — I have the honor to present the following report on the Fogg Art Museum for the year 1917-18.

### GIFTS

Society of Friends of the Fogg Art Museum: Crucifixion, by Bernardo Daddi; 2 pencil drawings — St. Peters, Rome, after drawings by Michelangelo, and St. Peters, Rome, after drawings by Bernini — by Kenneth J. Conant, Class of 1915; Persian miniature by Mir Ali of the school of Behzad, of the early 16th century, from a manuscript of the history of Timur; Illuminated page, Persian, by Mir Ali of the school of Behzad, 15th to 16th century, from a manuscript of Nisami. Charles L. Freer, of Detroit: Chinese painting, Ancient pines and rocks; Reproductions of paintings by Li Lung-mien. Edward D. Bettens, Class of 1873, to the Louise E. Bettens fund: Fishing in the Adirondacks, watercolor by Winslow Homer. William A. White, Class of 1863: 18 drawings. John Pierpont Morgan, Class of 1889: 17 volumes of reproductions of drawings in the Uffizi Gallery. Fu-yün Chang: 13 Chinese coins. Mrs. Andrew Ingraham: 3 drawings. Edward W. Forbes, Class of 1895, in trust to the University: Byzantine school, St. Andrew and scenes from his life. Paul J. Sachs, Class of 1900: 2 drawings by Rodin, in pencil and wash. Edward W. Forbes and Paul J. Sachs: Fresco painting of North Italian school of 14th century.

The following prints have been received as gifts: —

William M. Ivins, Jr., Class of 1901: Girtin, Landscape.  
William Story Sargent, Class of 1866: 9 engravings.  
Bequest of Mrs. Elizabeth C. D. Chandler: 9 engravings.  
Mrs. Andrew Ingraham: 1 lithograph.  
John Woodbury, Class of 1880: McLaughlan, Old South Church, Boston.

The following prints have been purchased: —

Unknown Florentine engraver, 15th century. Visitation.  
Nicoletto da Modena. Vestal.  
Nicoletto da Modena. Mars.  
Master F. V. B. St. Christopher.  
St. Bonaventure. Meditationi sopra la passione del Nostro Signore. Florence, Lorenzo Morgiani and Johann Pietri, about 1495. This book contains 12 woodcuts from 10 different blocks, and 1 smaller woodcut.  
Sixty-five photographs of early prints were the gift of the Museum of Fine Arts.

## LOANS

During the past year the Fogg Museum has received some unusually important loans. These may be divided into three classes: I. Works of art which have come to the Museum as indefinite loans; II. A series of loans of important paintings, prints, and other objects, one at a time, for a period of about four or five days, and in some cases for a longer period; III. Special exhibitions.

## I. Indefinite loans:—

Hervey E. Wetzel, Class of 1911: Collection of Chinese, Japanese and Korean art, consisting of bronze, jade, pottery and sculpture, together with examples of Arabic calligraphy and Persian miniatures, arranged by Mr. Wetzel in the northwest corner room on the ground floor; Venetian painting, Madonna and Child; Lazzaro Bastiani, Annunciation; Italian school, 3 leaves from a choral; Italian school, before 1400, 7 leaves from a choral; Italian school, end of 14th century, Red eagle; Italian school, 14th century, Four scenes from life of St. Francis; 7 walnut chairs, Italian 17th century; Table with lyre legs, Spanish, 17th century; Livy, Decades. Rome, Ulrich Hahn, ab. 1470; Dodge MacKnight, 2 water colors.

## II. Loans for a few days:—

Ehrich Galleries: Goya, Dwarf; Master of Frankfort, Madonna and Child and angels.

## Loans for longer periods:—

Samuel Sachs: Tintoretto, Diana.

A. Kingsley Porter: Guariento, St. Michael; Gregorio Schiavone, Madonna and Child; Jacopo di Cione, Coronation of the Virgin; Simone da Bologna, Coronation of the Virgin.

John Pierpont Morgan, Class of 1889: 5 leaves from 14th or 15th century antiphonary.

George Peabody Gardner, Jr., Class of 1910: 2 Chinese vases, Ming period; Dodge MacKnight, 2 water colors: Scene in Mexico, Orihuela, also India ink drawing of figures crossing a bridge at Orihuela; Portrait of a lady, Chinese painting, Tsing period; Japanese screen attributed to Kano Yeitoku, about 1570; Ladies in landscape, Chinese painting, Ming period; Birds, peonies and magnolias, Chinese painting, Ming period.

Miss Katherine Bullard and Miss Ellen Bullard: 38 etchings by Lalanne, Legros, Lepère, Whistler, Haden, Bone, Meryon, Cameron, Zorn, Millet.

William A. White, Class of 1863: Mediaeval almanac.

Mrs. John Linsee: 4 Japanese paintings of the Tosa school, about 1480.

Dr. Denman W. Ross, Class of 1875: 5 pieces of textile; 3 Japanese paintings of the Tosa school, about 1480; Persian illuminated leaf; Persian brocade, 15th to 16th century.

Mrs. John Elliott: 2 paintings by Paul Bril (?)

Mrs. William C. Endicott: Shere mill pond, etching by Seymour Haden.

Ralph D. Flint, Class of 1907: 16th century Italian Crucifix; Collection of pigments.

Messrs. Lai Yuan and Company: Portrait of Chen Hsien-Chang, painted in Ming dynasty.

K. Minassin: 1 Cufic parchment book; 2 leaves of Cufic writing; 1 leaf.

Harvard College Library: 23 illustrated books, printed in the 15th and early 16th centuries.

Edward W. Forbes: North Italian painting, 14th century; "Legend of Sleepy Hollow," illustrated by Darley; 2 Byzantine paintings representing Madonna and Child; Leaf from choir book; Ghirlandaio, Kneeling Virgin; Turner, Wave; Turner, Simphon Pass.

Paul J. Sachs: Giovanni di Paolo, St. John the Baptist; Francesco di Giorgio, Madonna and Child.

### III. Special exhibitions:—

A. The first exhibition of the year was of 109 lead pencil drawings by Kenneth J. Conant, Class of 1915, lent by him from October 20 to November 2, 1917.

B. The next exhibition was of paintings and drawings by William T. Richards, March 11 to 23, 1918. These were lent as follows:—

Professor Theodore W. Richards, Class of 1886: 202 paintings and drawings, 5 sketch books, 3 wood engravings.

Mrs. William T. Brewster: 10 water colors.

C. The most important special exhibition of the year was that of illuminated manuscripts belonging to John Pierpont Morgan, April 1 to 13, 1918. These manuscripts, 25 in number, were of exceptional beauty and importance and many of them far famed. They included a Greek twelfth century Gospels, the well-known English Bestiary of the twelfth century, the Windmill Psalter, a French ninth century Gospels, and a French fifteenth century Book of Hours, akin to the Bedford Book of Hours in the British Museum, as well as other fine English, French, Flemish, Spanish, Italian, and German manuscripts, and the famous Persian Bestiary. No such collection of illuminated manuscripts had ever before been exhibited in this country outside of New York City.

### PUBLIC LECTURES

Evening lectures:—

The Wonder of War Work, by Mr. Joseph Pennell, December 13, 1917.

The Relation of Art to Life, by Dr. Edward W. Emerson, January 16, 1918.

French Gothic Architecture, by Professor A. Kingsley Porter, March 13, 1918.

The Geometric Basis of Design, by Mr. Jay Hambidge: a course of three lectures, April 23, April 26, and May 2, 1918.

In addition to these lectures, a recital of Indian Music, by Ratan Devi, with introductory talk by Dr. Ananda Coomaraswamy, was given in the John Knowles Paine Concert Hall, May 13, 1918, under the auspices of the Departments of Music and of Fine Arts.

**Afternoon lectures: —**

Three lectures by Professor George H. Chase, Class of 1896: The Parthenon and its Later History, February 15, 1918; The Sculptures of the Parthenon, February 18, 1918; Praxiteles, February 25, 1918.

Three lectures by Professor Arthur Pope, Class of 1901: Giotto's Frescoes in the Arena Chapel in Padua, March 1, 1918; Giorgione and Titian, March 4, 1918; Manet and Degas, March 8, 1918.

Three lectures by Professor George Harold Edgell, Class of 1909: Leonardo da Vinci, March 15, 1918; Michelangelo, March 18, 1918; Raphael, March 22, 1918.

The Italian Garden, by Professor James S. Pray, Class of 1898, March 25, 1918.

Two gallery conferences on the exhibition of illuminated manuscripts loaned by John Pierpont Morgan: Dr. George P. Winship, Class of 1893, April 4, 1918; Edward W. Forbes, Class of 1895, April 9, 1918.

**PHOTOGRAPHS AND SLIDES**

Three hundred and eighty-five photographs have been added to the collection this year. Of these 207 were purchases and 178 were gifts from the following people: Dr. Denman W. Ross, Charles Loeser, Hervey E. Wetzel, Professor George H. Chase, A. Kingsley Porter, Museum of Fine Arts, Boston, Mrs. George L. Dexter, Miss Margaret E. Gilman, Paul J. Sachs, and Edward W. Forbes. This brings the total number of photographs in the collection to 47,175. All new accessions have been temporarily catalogued so that they are easily accessible. Eight hundred and twenty-seven photographs and 108 slides have been catalogued this year. From Dr. Denman W. Ross the Museum has received a gift of twenty-seven slides.

Fifteen Medici prints have been acquired by the Museum this year. Twelve of these were the gifts of the following: Benjamin F. Curtis, Class of 1888, Hervey E. Wetzel, Edward W. Forbes, and Paul J. Sachs. Three were an indefinite loan from Edward W. Forbes.

Photographs were lent to instructors 244 times, and slides were borrowed 296 times.

Fifteen dollars and twenty-five cents were received from the sale of photographs and \$21.70 from the sale of postcards.

About three thousand negatives belonging to Mr. Frank L. Collyer have been temporarily deposited in the Museum. As many of these are of subjects not represented among the Museum slides, the collection is being arranged to make such negatives available.

The public school lending set of Greek slides was used by eighteen high schools, the Roman set by sixteen, and the English set by twelve.

### BOOKS

Two hundred and one books were gifts from the following persons or institutions: —

Metropolitan Museum, Minneapolis Institute of Arts, Cleveland Museum of Art, San Francisco Art Association, Dr. Denman W. Ross, Duveen Brothers, Estate of Mrs. Elizabeth C. D. Chandler, Miss Sara Norton, Charles L. Freer, Henry C. Frick, Charles E. Sargent, General Francis H. Appleton, E. A. Faust, P. A. B. Widener, Edward D. Bettens, Kleinberger Galleries, G. H. Edgell, Edward W. Forbes, Paul J. Sachs.

Seven books were transferred from the Harvard College Library and 31 were purchased from the Searle Fund. This brings the total accessions of the year to 239, and the total of the library to 1647.

The bibliography of fifteenth and early sixteenth century illustrated books in the Widener Library is being continued, the card catalogue of works of art in the Museum is in progress and an index of art periodicals is under way.

Work on the Catalogue of Primitive Paintings in the Museum has been in progress during the year.

### NEEDS

The building has become entirely inadequate to the proper exhibition of the works of art in the Museum and to the needs of classes using its collections and equipment. Moreover, there are not sufficient funds to meet even the present low expenditures. Only through the generosity of a few friends, including the officials of the Museum, is it possible to continue the work of the Museum from year to year. It is to be hoped that such a condition may not be permitted to remain more than temporary, and that the Museum may soon be placed on a secure and permanent foundation.

ARTHUR POPE, *Acting Director.*

## HARVARD UNIVERSITY PRESS

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — I have the honor to submit my report for the academic year 1917–18.

In this year the Press has been affected, along with all industry, by the paramount necessities of the conduct of the war. It has been able, nevertheless, to proceed with its work, partly by meeting the necessity and publishing texts for use in the training of the military forces; partly by continuing its lists of discussions of matters pertinent to the readjustments of a final peace; and partly by the making of books upon subjects important before the war, and to be important afterward, but during the period of war remotely concerned with its actions and effects.

The titles that follow — a complete list of the year's publications — show the extent of the war-time range of the Press:—

**A Manual for Northern Woodsmen, 5th ed.** By Austin Cary, formerly Assistant Professor of Forestry in Harvard University.

**Medical Report of the Rice Expedition to Brasil.** By William T. Councilman, M.D., and Robert A. Lambert, M.D., from the School of Tropical Medicine, Harvard University.

**Business Practice in Elementary Schools.** By Roy Davis.

**A Handbook of Northern France.** By William Morris Davis, S.D., Ph.D., Professor of Geology, Emeritus, Harvard University; Professeur agréé à l'Université de Paris, 1911–12; Chairman, Geography Committee, National Research Council.

**The Teaching of Economics in Harvard University.** A Report presented by the Division of Education at the request of the Department of Economics.

**The Gospel Manuscripts of the General Theological Seminary.** By Charles Carrol Edmunds, D.D., Professor of the Literature and Interpretation of the New Testament in the General Theological Seminary of New York; and William Henry Paine Hatch, Ph.D., D.D., Professor of the Literature and Interpretation of the New Testament in the Episcopal Theological School, Cambridge, Massachusetts.

**The Ladies of Dante's Lyrics.** By Charles Hall Grandgent, Professor of Romance Languages in Harvard University.

**Trade and Navigation between Spain and the Indies in the Time of the Hapsburgs.** By Clarence Henry Haring, Assistant Professor of History in Yale University.

**Handbook of Travel.** Prepared by the Harvard Travellers Club.

**Harvard Studies in Classical Philology, Vol. XXIX.**

- Norman Institutions. By Charles Homer Haskins, Litt.D., LL.D., Gurney Professor of History and Political Science in Harvard University; Corresponding Member of the Royal Historical Society, the Société des Antiquaires de Normandie, and the Academies of Rouen and Caen.
- The Position of Foreign Corporations in American Constitutional Law. By Gerard Carl Henderson, LL.B.
- Sonnets and Other Lyrics. Robert Silliman Hillyer.
- The Divine Comedy of Dante Alighieri. Vol. I, Inferno. The Italian text with a translation in English blank verse and a commentary by Courtney Langdon, Professor of Romance Languages and Literatures in Brown University.
- The State Tax Commission. A Study of the Development and Results of State Control over the Assessment of Property for Taxation. By Harley Leist Lutz, Ph.D., Professor of Economics in Oberlin College.
- The Self and Nature. By DeWitt Henry Parker, Ph.D., Assistant Professor of Philosophy in the University of Michigan.
- The Russian Revolution: The Jugo-Slav Movement. By Professors Alexander Petrunkevitch (Yale), S. N. Harper (University of Chicago), and F. A. Golder (State College of Washington), R. J. Kerner (University of Missouri).
- Four Essays. By Murray Anthony Potter, Late Assistant Professor of Romance Languages in Harvard University.
- North Atlantic Fisheries Arbitration. By Elihu Root. Edited by Robert Bacon and James Brown Scott.
- Miscellaneous Addresses. By Elihu Root. Edited by Robert Bacon and James Brown Scott.
- The United States and the War. The Mission to Russia. Political Addresses. By Elihu Root. Edited by Robert Bacon and James Brown Scott.
- Acidosis. By Andrew W. Sellards, A.M., M.D., Associate in the Harvard Medical School, Department of Tropical Medicine.
- Giotto and Some of His Followers. By Osvald Sirén, Ph.D., Professor of the History of Art; University of Stockholm.
- A Check List of North American Amphibians and Reptiles. By Leonard Stejneger and Thomas Barbour.
- A Bibliography of Municipal Utility Regulation and Municipal Ownership. By Don Lorenzo Stevens, M.B.A.
- State Sanitation, Vol. II. A Review of the work of the Massachusetts State Board of Health. By George C. Whipple, Professor of Sanitary Engineering in Harvard University and Massachusetts Institute of Technology.
- French for Soldiers. By Professor Arthur F. Whitten and Capt. Percy W. Long.
- English Pageantry. An Historical Outline. By Robert Withington, Ph.D., Assistant Professor of the English Language and Literature in Smith College.
- The Early English Customs System. By Norman Scott Brien Gras, Ph.D., Associate Professor of History in Clark College, Assistant Professor of History in Clark University.

For the past year the receipts from the sale of books amounted to \$73,142.45 as compared with \$67,441.01 in 1916-17. The gross business, printing and publishing combined, amounted to about \$162,600.00 as compared with \$164,000.00 in the year before.

In point of equipment the Press has been able to care for its everyday needs. It has shared with other industries the shortages of materials — paper and metal — incident to the pressure of war.

At this time it is not to be expected that the Press could secure the equipment of exotic and special types requisite for the conduct of a learned press. This provision is one to be postponed to a quieter time — but it is one not to be lost sight of as an essential part of any plan for the establishment of a university press.

W. A. DWIGGINS,  
*Acting Director of the Press.*

## UNIVERSITY EXTENSION

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — The following report covers the work of University Extension for the academic year 1917-18, including the Summer School of Arts and Sciences for 1918.

### I. THE SUMMER SCHOOL OF ARTS AND SCIENCES

The conduct of the Summer School of 1918 was in the hands of Asst. Professor Arthur F. Whitem, Acting Director.

The general courses of the Summer School were offered by thirty officers of the Faculty of Arts and Sciences, including nine professors, two associate professors, five assistant professors, ten instructors, two assistants, and two lecturers; together with four professors, one assistant professor, one assistant, in other institutions, and three gentlemen not holding academic positions.

The usual courses in Physical Education under Dr. D. A. Sargent engaged the services of a large number of other instructors and assistants.

A summer camp of the Reserve Officers' Training Corps was held in connection with the Summer School. Three weeks of intensive training in Cambridge were followed by three weeks in camp at Lancaster, Massachusetts. The instruction was given by the Department of Military Science and Tactics, assisted by officers from Camp Devens, including those of the French and British military missions.

The list of courses follows: —

### SUMMER COURSES OF INSTRUCTION, 1918

All courses met five times a week for six weeks unless otherwise stated.

The degrees (A.B., A.A., S.B.) for which the courses were accepted are indicated after the name of the course. The courses are valued as half-courses, unless otherwise stated.

Harvard students are designated by their status in the academic year preceding the Summer School. The number of auditors (often an important element in the course) is indicated in addition to the number of persons actually registered for the course.

## ASTRONOMY

- S2a. Dr. H. T. Stetson. — Navigation and Nautical Astronomy. (A.B., A.A., S.B.) 6 S.S., 1 Gr., 3 Ju., 1 So., 1 Fr. Total 12.

## CHEMISTRY

- S4. Professor G. P. BAXTER and Asst. Professor G. S. FORBES. — Elementary Theoretical and Descriptive Chemistry. (A.B., A.A., S.B.) 11 S.S., 1 Ju., 2 Fr., 3 Sp. Total 17.
- S2. Dr. G. A. HILL. — Organic Chemistry. (A.B., A.A., S.B.) 20 S.S., 1 Se., 2 Ju., 3 So., 3 Fr. Total 29.
- S3. Asst. Professor G. S. FORBES. — Qualitative Analysis. (A.B., A.A., S.B.) 2 S.S., 2 Ju., 1 So. Total 5 (+ 1 Aud.).
- S4. Professor G. P. BAXTER. — Quantitative Analysis. (A.B., A.A., S.B.) 5 S.S., 2 Ju., 2 So., 1 Fr. Total 10.
- S22. Dr. G. A. HILL. — Experimental Organic Chemistry. (A.B., A.A., S.B.) 2 So. Total 2.

## EDUCATION

- S4. Professor H. W. HOLMES. — General Principles of Education. (A.B., A.A., S.B.) 7 S.S. Total 7 (+ 1 Aud.).
- S3a. Professor P. H. HANUS. — School Organization, Administration, and Supervision, local, county, and state. (A.B., A.A., S.B.) 31 S.S. Total 31 (+ 1 Aud.).
- S3b. Asst. Professor A. J. INGLIS. — Principles of Secondary Education. (A.B., A.A., S.B.) 9 S.S. Total 9 (+ 2 Aud.).
- S3c. Professor H. W. HOLMES. — Elementary Education. (A.B., A.A., S.B.) 7 S.S. Total 7.
- S4. Mr. E. A. SHAW (Tufts College). — Educational Measurement. (A.B., A.A., S.B.) 3 S.S. Total 3 (+ 10 Aud.).
- S7. Professor W. F. DEARBORN. — Educational Psychology. (A.B., A.A., S.B.) 10 S.S., 1 Se. Total 11.
- S15. Asst. Professor A. J. INGLIS. — The Junior or Intermediate High School and Related Movements. (A.B., A.A., S.B.) 3 S.S. Total 3 (+ 1 Aud.).
- S16. Mr. R. W. KELLY. — Principles of Vocational Guidance. (A.B., A.A., S.B.) 15 S.S. Total 15 (+ 2 Aud.).
- S17a. Mr. C. S. THOMAS (Newton High School). — Teaching of English in Secondary Schools. (A.A.) 11 S.S. Total 11 (+ 4 Aud.).
- S17b. Mr. C. S. THOMAS (Newton High School). — Special Problems in the Teaching of English in Secondary Schools. (A.A.) 11 S.S. Total 11 (+ 4 Aud.).
- S18. Mr. C. D. KINGSLEY (Massachusetts Board of Education). — Social Studies in Secondary Education. (A.A.) 8 S.S. Total 8 (+ 1 Aud.).
- S19. Mr. W. S. SNOW (English High School). — Teaching of Modern Languages in Secondary Schools. (A.A.) 5 S.S. Total 5 (+ 4 Aud.).

- S20c. Professor W. F. DEARBORN. — Mental and Physical Development of Defective Children. (A.B., A.A., S.B.) 7 S.S. Total 7.

## ENGLISH

- SA. Professor H. R. SHIPHERD (University of Cincinnati). — English Composition and Methods of Teaching. (A.A.)  
8 S.S. Total 8 (+ 1 Aud.).
- SC. Professor H. E. WOODBRIDGE (University of Illinois). — English Composition, advanced course. (A.A.) 7 S.S. Total 7.
- SE. Mr. T. L. HOOD. — English for Foreigners. 5 S.S., 2 Gr. Total 7.
- S33. Professor C. N. GREENOUGH. — American Literature. (A.A.)  
5 S.S. Total 5 (+ 1 Aud.).
- S41. Mr. J. G. HART. — English Literature from the Earliest Times to the Present. (A.A.) 10 S.S. Total 10.
- S45. Associate Professor C. T. COPELAND. — Lives, Characters and Times of Men of Letters, English and American. (A.A.)  
11 S.S. Total 11 (+ 6 Aud.).
- S67. Professor C. N. GREENOUGH. — English Composition. (A.B., A.A., S.B.)  
8 S.S., 1 So. Total 9 (+ 2 Aud.).
- S70. Professor J. L. LOWES. — Shakspeare. (A.B., A.A., S.B.)  
7 S.S., 1 Ju., 1 So. Total 9 (+ 1 Aud.).

PUBLIC SPEAKING AND ORAL ENGLISH<sup>1</sup>

- S6. Associate Professor I. L. WINTER. — Fundamentals of Speaking and Oral Reading. 8 S.S. Total 8.
- S7. Associate Professor I. L. WINTER. — Vocal Technique.  
10 S.S., 2 Gr. Total 12.
- S8. Associate Professor I. L. WINTER. — Vocal Interpretation of Literature. 9 S.S., 1 Gr. Total 10.
- S10. Mr. C. H. WOOLBERT (formerly of University of Illinois) and Mr. C. S. THOMAS (Newton High School). — Public Speaking.  
5 S.S. Total 5.
- S10a. Mr. C. H. WOOLBERT (formerly of University of Illinois). — Public Speaking. 18 S.S. Total 18.
- S17. Mr. C. H. WOOLBERT (formerly of University of Illinois) and Mr. C. S. THOMAS (Newton High School). — Oral English. 6 S.S. Total 6.
- S20. Associate Professor I. L. WINTER. — Special Work. 12 S.S. Total 12.
- S21. Associate Professor I. L. WINTER. — Dramatic Interpretation.  
4 S.S. Total 4.
- S27. Associate Professor I. L. WINTER. — Principles and Methods in Teaching Public Speaking and Oral English. 6 S.S. Total 6.

<sup>1</sup> Any two five-hour courses in Public Speaking may be counted as a half-course for A.B., A.A., S.B., provided no course in Public Speaking in Harvard College has been counted.

## FINE ARTS

- S1a. Asst. Professor ARTHUR POPE. — Principles of Drawing and Painting and Theory of Design. (A.B., A.A., S.B.) 9 S.S. Total 9.
- S2c. Asst. Professor ARTHUR POPE. — Theory and Practice of Painting. (A.B., A.A., S.B.) 5 S.S. Total 5.
- S5e. Mr. G. P. WINSHIP. — History of the Printed Book. (A.B., A.A., S.B.) 2 S.S. Total 2.

## FRENCH

- S4. Mr. E. L. RAICHE. — Elementary French. (A.A.) 16 S.S., 3 Gr. Total 19.
- S1. Mr. E. L. RAICHE. — Second-Year College French. (A.B., A.A., S.B.) 14 S.S., 1 Ju., 1 Fr. Total 16 (+ 3 Aud.).
- S2. Mr. G. B. WESTON. — Third-Year College French. (A.B., A.A., S.B.) 10 S.S., 1 So. Total 11.
- S3. Mr. L. J. A. MERCIER. — French Composition and Conversation. 25 S.S., 1 Gr. Total 26.
- S16. Mr. L. J. A. MERCIER. — French Drama in the Nineteenth Century. (A.B., A.A., S.B.) 8 S.S., 1 Gr., 1 Se., 1 So. Total 11 (+ 5 Aud.).

## GEOLOGY

- S20a. Professor W. W. ATWOOD. — Physiographic Field Studies. 1 S.S. Total 1.

## GERMAN

- S4. Dr. A. H. HERRICK. — Elementary German. (A.A.) 6 S.S. Total 6.
- S1. Dr. F. W. C. LIEDER. — Second-Year College German. (A.B., A.A., S.B.) 2 So., 2 Fr. Total 4.

## HISTORY

- S1. Professor C. H. HASKINS. — Mediaeval and Modern History. (A.B., A.A., S.B.) 17 S.S., 1 So. Total 18 (+ 5 Aud.).
- S4. Professor C. H. HASKINS. — English Background of American History. (A.B., A.A., S.B.) 6 S.S. Total 6 (+ 3 Aud.).
- S30. Professors W. S. FERGUSON, E. F. GAY, A. B. HART, C. H. HASKINS, R. H. LORD, St. G. L. SIOUSSAT, G. M. WRONG, Dr. JULIUS KLEIN, Mr. W. R. THAYER, and Lieutenant MORIZE. — Problems of the War. (A.B., A.A., S.B.) 8 S.S., 5 Ju., 1 So., 1 Sp. Total 15.
- S32b. Professor St. G. L. SIOUSSAT (Brown University). — History of the United States from 1844 to the Present Time. (A.B., A.A., S.B.) 10 S.S., 1 Sp. Total 11 (+ 3 Aud.).

## ITALIAN

- S1. Mr. G. B. WESTON. — Elementary Italian. (A.B., A.A., S.B.) 4 S.S., 2 Gr. Total 6.
- S2. Mr. G. B. WESTON. — Advanced Italian. (A.B., A.A., S.B.) 1 S.S., 1 Ju. Total 2.

## MATHEMATICS

- SK. Asst. Professor G. D. BIRKHOFF. — Logarithms and Trigonometry. (A.B., A.A., S.B.) 6 S.S., 1 Se., 3 So., 3 Fr. Total 13.

## MILITARY SCIENCE

- SA. Theoretical and practical military training. (A.B., A.A., S.B.) 329 S.S., 5 Ju., 7 So., 7 Fr. Total 348.  
 SB. Advanced course. (A.B., A.A., S.B.) 59 S.S., 2 Se., 4 Ju., 20 So., 67 Fr. Total 152.  
 S5. Professor W. M. COLE. — Regimental Supply Service. (A.B., A.A., S.B.) 18 S.S., 1 Se., 1 Ju., 1 Fr. Total 21.

## MUSIC

- S1. Professor L. R. LEWIS (Tufts College). — Musical Appreciation. (A.B., A.A., S.B.) 4 S.S. Total 4.

## PHILOSOPHY

- S1. Dr. H. M. SHEFFER. — Logic. (A.B., A.A., S.B.) 3 S.S. Total 3.  
 S2. Dr. H. M. SHEFFER. — Introduction to Philosophy. (A.B., A.A., S.B.) 5 S.S., 1 Ju., 1 So. Total 7 (+ 2 Aud.).

## PHYSICS

- S1. Asst. Professor R. D. EVANS (Bowdoin College). — General Physics. (A.B., A.A., S.B.) 14 S.S., 1 So. Total 15.

## PSYCHOLOGY

- S1. Dr. R. C. GIVLER. — General Psychology. (A.B., A.A., S.B.) 4 S.S. Total 4.  
 S2. Dr. R. C. GIVLER. — Applied Psychology. (A.B., A.A., S.B.) 10 S.S., 1 Ju., 1 So., 2 Fr. Total 14 (+ 3 Aud.).

## SOCIAL ETHICS

- S9. Dr. J. S. BRACKETT (School of Social Work). — Principles and Methods of War-Relief and of Home Service. (A.A.) 10 S.S. Total 10.

## SPANISH

- S1. Mr. G. L. LINCOLN. — Elementary Spanish. (A.B., A.A., S.B.) 15 S.S., 1 Ju., 1 So. Total 17 (+ 4 Aud.).  
 S5. Mr. G. L. LINCOLN. — Advanced Spanish. (A.B., A.A., S.B.) 5 S.S. Total 5 (+ 4 Aud.).  
 S7. Asst. Professor A. F. WHITTEM. — Spanish Composition and Conversation. (A.B., A.A., S.B.) 13 S.S., 1 Fr. Total 14 (+ 3 Aud.).

The total number of persons in attendance was as follows: —

	1915	1916	1917	1918
Total number of students .....	916	1044	771	1245
“ “ “ men .....	446	495	287	815
“ “ “ women .....	470	549	484	430
Percentage of men .....	48 %	47 %	37 %	65 %

This body of students was made up as follows: —

	1915	1916	1917	1918
Students at Engineering Camp <sup>1</sup> .....	15	10	0	0
Students in Reserve Officers' Training Corps ..	0	0	0	522
Harvard Students of preceding academic year: <sup>2</sup>				
Members of graduate and professional schools	21	18	16	10
Undergraduates in good standing .....	66	89	42	52
Undergraduates with deficient record .....	36	43	5	16
Special Students, Arts and Sciences .....	0	0	5	5
Radcliffe Students of preceding academic year .	9	12	29	18
Students in Physical Education Courses .....	215	218	190	180
Students from outside in general courses .....	560	657	491	443
	<hr/>	<hr/>	<hr/>	<hr/>
	922	1047	778	1246
Names counted twice .....	6	3	7	1
	<hr/>	<hr/>	<hr/>	<hr/>
	916	1044	771	1245

The composition of the group entitled “ Students from outside in general courses ” was as follows: —

	1915	1916	1917	1918
Teachers and school officers:				
Professors and college instructors .....	31	53	34	19
Normal school teachers .....	9	10	10	8
High school teachers .....	88	116	91	82
Junior high school teachers .....	0	8	14	5
Grade school teachers .....	99	99	72	55
Endowed and private school teachers ....	59	53	35	18
Other teachers .....	23	40	26	15
Superintendents, supervisors, and principals	59	45	23	53
	<hr/>	<hr/>	<hr/>	<hr/>
Total teachers and school officers .....	368	424	305	255
Men .....	128	145	87	88
Women .....	240	279	218	167
Percentage of men .....	34 %	34 %	29 %	34 %

<sup>1</sup> Not including Engineering Camp students who were at the time members of Harvard University.

<sup>2</sup> Not including members of the Reserve Officers' Training Corps.

	1915	1916	1917	1918
Students from other colleges .....	67	96	54	72
Students from preparatory schools .....	6	2	6	13
Other students .....	21	10	19	6
Other occupations than teaching .....	52	67	54	61
Occupation not given .....	46	58	53	36
	192	233	186	188
	368	424	305	255
Total students from outside, general courses	560	657	491	443
Men .....	242	276	179	187
Women .....	318	381	312	256
Percentage of men .....	43 %	42 %	36 %	42 %

In this body of " students from outside " there were: —

	1915	1916	1917	1918
Holders of A.B., S.B., or some equivalent degree .....	257	222	172	84
Holders of a higher degree .....	55	63	50	109
Members of the Summer School in one of preceding five years .....	171	102	94	73

The geographical distribution of this same group was as follows: —

	1915	1916	1917	1918
New England States .....	367	346	308	268
Middle States .....	95	140	87	60
South Atlantic States .....	7	45	21	31
South Central States .....	11	16	9	24
North Central States .....	54	75	34	22
Western States .....	4	19	13	11
Foreign Countries .....	22	16	19	27
	560	657	491	443

## II. COMMISSION ON EXTENSION COURSES

### REPRESENTING

Harvard University	Boston University
Tufts College	Museum of Fine Arts
Mass. Institute of Technology	Wellesley College
Boston College	Simmons College
Massachusetts Board of Education	
School Committee of the City of Boston	

The following courses were offered in 1917-18. The table shows for each course the number of students in the course and the number of certificates granted: —

	Students	Certificates
Botany (Professor W. J. V. Osterhout) .....	21	9
Economics (Professor E. E. Day) .....	49	21
Education:		
Educational Measurement (Professor P. H. Hanus) ...	21	3
Educational Psychology (Professor A. O. Norton) ....	20	6
Teaching and the Supervision of Teaching (Professor H. W. Holmes) .....	40	9
English:		
Elementary English Composition (Mr. F. W. C. Hersey) 153		67
Advanced English Composition (Professor D. L. Sharp) 84		18
History of English Literature (Professor E. C. Black) ..	96	25
Less Known and Recent Plays of Modern Dramatists (Professor G. P. Baker) .....	86	9
Nineteenth Century English Literature (Professor C. T. Copeland) .....	156	12
Public Speaking (Professor I. L. Winter) : .....	5	1
Fine Arts:		
Colonial Art (Mr. Huger Elliott) .....	30	3
History of Design (Mr. H. H. Clark) .....	6	2
French (Professor James Geddes, Jr.):		
Elementary .....	49	9
Second-Year .....	29	7
Intermediate .....	36	13
Geography (Professor Elizabeth F. Fisher):		
Geographic Influences in the Development of the United States .....	52	25
Our Natural Resources and their Conservation .....	56	21
Geology (Professor G. H. Barton):		
Lithology .....	25	10
Historical Geology .....	15	7
German (Professor M. L. Perrin):		
Practical Composition and Conversation .....	19	15
German Literature .....	14	13
History:		
American National Development (Professor C. F. A. Currier) .....	33	25
English Background of American History (Professor C. H. Haskins) .....	70	18
International Law (Professors A. I. Andrews and G. G. Wilson) .....	18	5
Music (Professor J. P. Marshall) .....	77	11
Spanish (Professor E. F. Langley):		
Elementary .....	56	22
Second-Year .....	17	7
Zoölogy (Professor G. H. Parker) .....	17	6
	1350	399

## III

In 1917-18 forty-five men were registered as Special Students under the Faculty of Arts and Sciences. These students entered fifty full courses and forty-five half-courses, of which thirty-five full courses and thirty-four half-courses were completed with the following grades: A, eight; B, twenty-three; C, twenty-seven; D, eleven. Of the forty-five students, thirty-one completed at least one course or half-course.

The registration and immediate supervision of the Special Students were in charge of Assistant Professor A. F. Whittam, Secretary of the Administrative Board for University Extension and for Special Students.

The number of Special Students registered November 1, 1918, was twenty-four. Their average age was twenty-eight. Thirteen are of foreign birth. By occupation two are teachers; ten have no other occupation than student. Four have enrolled in four or more courses.

## IV

At Commencement, 1918, the degree of A.A. was conferred by Harvard University on

Millard Alan Black

by Radcliffe College on

Blanche Brackett.

Elmer Colcord received the degree of A.A. from Tufts College at Commencement, 1918.

JAMES HARDY ROPES, *Dean.*

## RADCLIFFE COLLEGE

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — I have the honor to submit the report of Radcliffe College for the academic year 1917-18.

The number of students in actual attendance during the year was 618.

Graduate Students.....	90
Seniors.....	137
Juniors.....	104
Sophomores.....	114
Freshmen.....	92
Special Students.....	39
Unclassified Students.....	42
<hr/>	
Total.....	618

During the year fifteen teachers were given free tuition under the arrangement with a few public schools by which, in return for an opportunity given Radcliffe students to teach in these schools, a certain number of teachers are admitted free of charge to registration in Radcliffe College. This is three less than the number enrolled a year ago. It is interesting to see that in the election of courses, four of these teachers chose courses regularly offered in Radcliffe College, and eleven chose Harvard courses, for which Radcliffe has to pay.

In addition to these fifteen teachers, five other persons also took courses without charge: four mistresses of halls, and one Radcliffe graduate who is an assistant in the Fogg Art Museum.

At the rates allowed to teachers five students were admitted for Harvard courses, and eleven for Radcliffe courses.

It was expected that the number of graduate students would be much smaller than in preceding years, because war work had made greater demands on the older women, who in normal times make up the larger part of the graduate school. Although the number was smaller, the drop was not as great as we had thought, as ninety graduate students were registered for work during the year. Of these, thirty were graduates of Radcliffe College, and sixty of colleges other than Radcliffe. Even with the drop in numbers, the proportion of those holding Radcliffe degrees keeps practically the same.

To the " Courses Primarily for Graduates in Harvard University open to competent students of Radcliffe College " eighty-five students were admitted. Of these, thirty-one were registered in whole courses, and fifty-four in half-courses. The number of students admitted to these courses does not vary much from year to year, as great care is taken by the Committee on Instruction in regard to the applications.

At Commencement in June, 1918, one student received the degree of Associate in Arts. One hundred and twenty-eight students received the degree of Bachelor of Arts, thirty-nine *cum laude*, sixteen *magna cum laude*, and two *summa cum laude*. The degree of Master of Arts was conferred on twenty-six candidates. Eight of these had taken their first degree at Radcliffe College, while the rest represented twelve different colleges. One candidate received the degree of Doctor of Philosophy:

Frances Marion Fay, A.B. (*Radcliffe College*) 1912, A.M. (*ibid.*) 1913, in the special field of Economic History.

The following figures give the results of the admission examinations in 1918:

Admitted without condition by Old Plan .....	15
Admitted without condition by New Plan .....	51
	—
	66
Admitted with condition .....	28
	—
Total admitted .....	94
Refused admission by Old Plan .....	19
Refused admission by New Plan .....	22
	—
Total refused admission .....	41
	—
	135
Candidates taking examinations both in June and September and counted twice .....	14
	—
Total number of final candidates .....	121

The Radcliffe College Gymnasium was as usual this June the Cambridge centre for the College Board examinations for women.

The Caroline I. Wilby Prize, for the best original work in any department, was awarded to Olive Bernardine White, of the Class of 1918, for her thesis on The Verse Translations of John Dryden. The Captain Jonathan Fay Diploma and Scholarship were given to Alice Marie Graham, of the Class of 1918. The Phi Beta Kappa

Prize of \$50 was awarded to Ethel Maude Spurr, of the Class of 1919. This prize is given to the ranking member of the five Juniors taken into the society in the spring of their Junior year. The two Woods Hole Scholarships for study in the Marine Biological Laboratory were awarded to Helen Ward Spencer, an Unclassified Student, and to Helen Stillwell Thomas, A.B. Smith College, 1909, Graduate Student in Radcliffe College, 1917-18. Two fellowships from the Carnegie Endowment were won by Radcliffe students — one of \$750 by Eleanor Wyllis Allen, of the Class of 1918, one of \$1000 by Bernice Veasey Brown, A.B. 1916, A.M. 1918. A prize of \$250, offered by the Drama League of America in their patriotic play competition, was awarded to Doris Friend Halman, A.B. 1916. Another prize of \$100 in this same contest was awarded to Rachel Lyman Field, a Special Student.

In addition to the permanent Chairman the members of the Academic Board for 1917-18 were Professors E. L. Mark, H. S. White, E. H. Hall, H. W. Smyth, G. L. Kittredge, C. H. Grandgent, G. P. Baxter, and W. S. Ferguson. Professor White was the Acting Chairman for the year.

The Associate for a term of six years on the nomination of the Alumnae Association is Christina Hopkinson Baker, 1893 (Mrs. George P. Baker). Mrs. Baker is the first Associate to be elected on the basis of a six-year term. Mary Lowell Barton (Mrs. Frederick Otis Barton) was elected a member of the Associates without limit of term. Professor Thomas Nixon Carver was the member of the Harvard Faculty elected a member of the Radcliffe Associates in succession to Professor Chester Noyes Greenough. Frances Parkman (Mrs. Henry Parkman) was reelected as a member of the Council for a term of seven years from 1918.

The gifts to the College during the year include those from the Classes of 1893, 1903, and 1908; a gift of money from the Division of Modern Languages and the Department of English — one-half the sum received by the examiners of Radcliffe candidates for honors and distinction in 1917; the bequest from Mrs. Susan Heard Dabney of \$20,000, to be used for scholarships; \$5000 additional from the estate of Mrs. Barnard; and a further amount, \$78,438.47, from the estate of Mrs. Abigail W. Howe, making the total from this bequest about \$300,000. In addition to these and many smaller gifts which show warm individual interest in the College, we have received two gifts which must be specially mentioned. From the Gilman family and from the friends of Mr. Arthur Gilman we have received a third gate for the college wall. This gate,

in memory of Mr. Gilman, has been set up on Brattle Street near the Library. To the Library there has come a very wonderful bequest of books from the library of Mr. George V. Leverett. This includes both valuable editions of standard works and beautiful examples of early printing, which mean to the College the beginning of a treasure room. The entire number of additions to the Library during the year count up to 2507 volumes, of which 1415 were gifts, making us now a library of over 42,000 books. The number of books drawn from the Harvard Library is large, and the Boston Public Library and the Athenaeum have also been used to a large extent by the students.

The college year has been marked by a very live interest in all sorts of war activities. Various extra-curriculum courses were given; there was a college farm planned for; and the students, by offering their help wherever it was needed outside, gained a living knowledge of the different kinds of work that the community was doing. The biggest work that the College itself did in this direction was in making the most generous arrangement possible in regard to the salaries of instructors who were away for war service. In spite of war conditions, which naturally bring with them a certain amount of restlessness, the year was a good one. The number of first and second group scholars was the largest that it has ever been, and this same standard seemed in general to be kept up through the College. There were very few withdrawals, and there were very few cases where the work suffered through misplaced energy in regard to what was done outside, or in consequence of failing interest from the thought that college courses were not important.

BERTHA M. BOODY, *Dean.*

# APPENDIX

## REPORT OF THE CHAIRMAN OF THE COMMITTEE ON ADMISSION

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — I have the honor to submit to you my report as Chairman of the Committee on Admission. During the past year, 1917-18, the Committee have acted upon 965 applications for admission to Harvard College and 40 applications for permission to attend courses of instruction under the Faculty of Arts and Sciences. The action of the Committee upon applications for admission to Harvard College is summarized in the following tables, in which, for purposes of comparison, are given the corresponding tables for 1915-16 and 1916-17.

### *Applications for Admission to the Freshman Class by Examination*

The tables below for 1918 include men admitted as Freshmen in June, September, and in December, when an extra set of admission examinations was held.

	1916	1917	1918
Admitted without conditions (Old Plan) .....	277	168	152
“ “ “ (New Plan) .....	243	288	244
<b>Total number admitted without conditions ..</b>	<b>519</b>	<b>456</b>	<b>396</b>
Admitted with conditions (Old Plan) .....	167	121	129
<b>Total number admitted .....</b>	<b>686</b>	<b>577</b>	<b>525</b>
Refused admission (Old Plan) .....	115	73	75
“ “ (New Plan) .....	105	81	70
<b>Total refused admission .....</b>	<b>220</b>	<b>154</b>	<b>145</b>
Percentage of refusal .....	22.8	20.7	21.04
Candidates in June who did not appear in September	58	12	19
<b>Total number of final candidates .....</b>	<b>964</b>	<b>743</b>	<b>689</b>

In the figures for 1918 above, are included 8 men admitted at the extra examination period in December and 6 men who were refused after these examinations. The figures also include 46 men who were excused from final examinations because of war service of various kinds. Under the votes of the Faculty empowering the Committee to admit men thus, the Committee considered 63 petitions for exemption from final examination and of these petitions accepted 48 and refused 15. Of these 48, however, two, owing to changes in their plans, did not avail themselves of the privilege granted them, but took examinations in the usual way, and were admitted.

The total number of applications for admission to the Freshman Class was naturally lower than last year because of the war, but perhaps not so much lower as might reasonably be expected. There was, indeed, a certain recovery of attendance after the sharp drop in the opening of the war.

*Applications for Admission from Other Colleges*

Ordinarily, the figures given in this report include only the applications of men who apply for registration at the beginning of the academic year. This year, they include all applications up to January second, when the academic year virtually began over again.

	1916	1917	1918
Admitted as Unclassified Students .....	197	123	243
Admitted as Sophomores .....	1		
"    " Juniors .....	2		
Total number admitted .....	200	123	243
Refused admission .....	59	38	33
Total number of applicants .....	259	161	276

The number of applications for admission from other colleges also shows a reapproach to normal conditions.

The most unusual feature of the work of the Committee this year was due to the sudden establishment in September of the S. A. T. C., the Naval Unit, and a unit of the Marine Corps. At the request of the Government, the College undertook to admit students to these units on certificates for high school work. For this work, suddenly thrust upon us, we had no machinery in existence, and no experience, of course, in admitting men on certificates — moreover, the epidemic of influenza which came at the same time made it impossible to secure proper records from the schools attended by the applicants. On account of the almost intolerable conditions under which the Committee worked in dealing with applicants for admission to the various units, it was impossible to keep full records of every one who applied for admission. We have no records, therefore, of the total number of applications considered or of the men refused, for such men invariably presented such credentials as they could get in person, and took them away again to present to some other institution. The figures for the men actually admitted to a unit on certificates for high school work are as follows: —

Known to be high school graduates .....	862
Certificates, with 15 or more units .....	218

(It is probable that most of these are graduates; but their papers contain no direct evidence)

Non-graduates with 14 units .....	29
"    "    "    13    " .....	25
"    "    "    less than 13 units .....	3

(These three persons represent mistakes on the part of the office. We did not intend to admit any one on less than 13 units)

In addition to the categories given above, we admitted men who fell in the following categories: —

Formerly in Harvard College, but entitled to return only as members of a unit .....	26
Formerly in other colleges, but with records which would not entitle them to admission to advanced standing at Harvard .....	31
Regarded as having the equivalent of a high school education .....	8

(Most of these were lawyers, one was a graduate of a Normal Art School, others mature men formerly Special Students in Harvard College)

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Total number admitted ..... 1202

In the last report, I made the tentative suggestion that it would be well to work out some method of admission which combined virtually the New Plan of admission with the methods pursued in admitting men from other colleges. Since that time, the sudden discontinuance of the military and naval units has given us an unexpected chance to test the theory. We had in College when the war ceased a very large number of students who had not complied with the admission requirements for registration in Harvard College; and some of these students wished to go on with the work they were engaged in as members of the Army or Navy. On recommendation of the Committee, the Faculty voted that the question of a man's continuance in College work should be decided according to his record, and that all members of a unit whose work was satisfactory should be allowed to continue their College work, registering as Unclassified Students, and that if they had satisfactory records at the end of their first year they should be classified as candidates for a degree in accordance with the method used in dealing with men admitted on certificates from other colleges. In accordance with this plan, 118 men registered in a Harvard unit were allowed to register as Unclassified Students.

In addition to this provision for helping men to go on with their education the Faculty, on recommendation of the Committee, instructed the Committee to extend the privilege of registration as Unclassified Students to men who had been in military or naval units of other colleges, or who after completing a school course covering the admission requirements had entered the Army or Navy.

In accordance with these instructions, the Committee admitted as Unclassified Students the following men: —

Men who were members of the S. A. T. C. or Naval Units in other colleges .....	9
Men who after completing a school course covering the admission requirements had enlisted, and who had obtained an honorable discharge to continue their education .....	12

The total number of men admitted as Unclassified Students was 382. Of this number, 234 have actually registered.

It will be difficult at the end of the year to classify these men on their records, which will exhibit the greatest variety; but the experience will be most useful to us, and will provide us with a very considerable body of data for testing and judging the validity of our requirements for admission.

JOHN GODDARD HART,  
*Chairman of the Committee on Admission.*

## REPORT OF THE MEDICAL ADVISER

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — I have the honor to present the following tables showing the illness among Harvard students for the academic year 1917-18.

The total of 1,400 is less than for many years, 689 less than last year.

The 16 cases of appendicitis is a remarkably small number. The average total of appendicitis for the preceding seven years is 38.6. Only 400 students were cared for at the Stillman Infirmary as compared with 813 for 1916-17. The average for the preceding six years was 560.

The Infirmary is still in need of funds to construct porches, where patients may receive the great benefit to be derived from open air treatment in suitable weather, and to pay for certain necessary improvements, especially in the elevator service.

There was one death only at the Infirmary, — Mr. George A. Madigan, 1919, of pneumonia on April 18, 1918.

The following gifts to the Infirmary have gone far to make the hours less tedious and more pleasant for practically every student whose illness has obliged him to go to the Infirmary: —

From Dr. B. A. G. Fuller, *Review of Reviews*, *Scribner's*, *Cosmopolitan*, *Harper's Monthly*, *Century*, *Life*, *Collier's*, *Munsey*, and *The London Illustrated*.

From the Crimson management, two copies daily of the *Crimson*.

From the American Field Service Fund, three books.

From the Physiological Laboratory, Lawrence Scientific School, three books.

From student patients, two books for the nurses' library, and four for the patients' library.

During the summer of 1918 the Medical Adviser and Dr. Albert P. Norris of Cambridge served as surgeons to the R.O.T.C., including the three weeks in camp.

At Camp Thayer five tents were set up for a field hospital. One tent, furnished with tables, lockers, medical and surgical supplies, was called the dispensary and used for consultation and treatment of ambulatory cases. Another tent was equipped for a diet kitchen and under the management of Mrs. Bailey added greatly to the efficiency of the hospital. Two other tents were furnished with canvas cots and constituted our two hospital wards. Both the dispensary and the diet kitchen were supplied with excellent water piped from the town water main which conveniently passed along the road bordering the camp. With the good food supplied by the diet kitchen we were able to care for all cases of illness and accident, with the exception of two, in this field hospital. Previous arrangements had been made with the Clinton Hospital, three miles distant, to take patients from our camp. One case of appendicitis and one of suspected gastric ulcer were all it was found necessary to send. Over 20 cases of sun-stroke and exhaustion were successfully treated in the field hospital.

MARSHALL H. BAILEY, *Medical Adviser*.

TABLE I.—ILLNESS REPORT, 1917-18

Diseases	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
Abcesses . . . . .	..	..	3	1	..	2	..	2	1	..	9
Appendicitis . . . . .	..	2	4	1	4	1	2	..	2	..	16
Asthma . . . . .	..	..	1	..	1	..	1	..	..	..	3
Bronchitis . . . . .	1	4	4	4	8	6	3	3	1	..	34
Chicken-pox . . . . .	..	..	..	2	2	..	..	..	2	..	6
Colds—unclassified . .	1	6	13	19	18	16	37	15	9	..	134
Coryza . . . . .	..	2	6	5	3	3	6	2	1	..	28
Diarrhoea . . . . .	..	1	1	1	..	..	1	4	..	..	8
Diphtheria . . . . .	..	..	..	..	..	1	1	..	..	..	2
Ear, of the . . . . .	..	..	..	5	6	2	3	3	1	..	20
Eye, of the . . . . .	..	9	10	17	7	9	22	11	9	..	94
General Debility . . .	..	2	21	6	3	13	6	7	13	..	71
German Measles . . .	..	..	2	7	5	5	12	8	2	..	41
Grippe . . . . .	..	2	7	13	16	49	39	26	4	..	156
Heart, of the . . . . .	..	2	..	1	1	1	2	1	4	..	12
Indigestion . . . . .	..	..	4	4	..	3	10	6	3	..	30
Infections, localized .	..	6	6	..	5	4	4	3	3	..	31
Insomnia . . . . .	..	..	1	1	1	..	1	1	..	1	6
Jaundice . . . . .	..	1	1	2	3	..	3	4	..	1	15
Laryngitis . . . . .	..	..	1	3	2	3	..	1	2	..	12
Lumbago . . . . .	..	..	..	..	..	..	..	1	1	..	2
Malaria . . . . .	..	1	1	..	..	..	..	..	1	..	3
Measles . . . . .	..	..	..	..	1	1	3	3	..	..	8
Miscellaneous Med. . .	2	27	35	26	30	29	41	22	24	4	240
Miscellaneous Surg. . .	3	16	26	18	26	8	15	14	26	3	155
Mumps . . . . .	..	..	..	..	3	6	16	2	..	..	27
Neuralgia . . . . .	..	..	..	1	..	1	..	..	..	..	2
Pharyngitis . . . . .	..	2	5	4	10	2	10	5	1	..	39
Pleuritis . . . . .	..	..	..	..	1	..	..	..	..	..	1
Pneumonia . . . . .	..	2	..	..	1	..	1	2	..	..	6
Rheumatism . . . . .	..	..	..	..	3	1	..	1	1	..	6
Scarlet Fever . . . . .	..	..	..	..	..	1	..	..	..	..	1
Skin, of the . . . . .	..	3	3	1	2	3	1	1	5	..	19
Teeth, of the . . . . .	..	3	3	2	3	..	5	5	3	..	24
Tonsilitis . . . . .	1	5	7	13	15	16	16	5	4	..	82
Whooping Cough . . .	..	1	..	..	..	..	..	..	..	..	1
No diagnosis . . . . .	..	2	6	5	8	8	15	11	..	1	56
<b>Total . . . . .</b>	<b>8</b>	<b>99</b>	<b>171</b>	<b>162</b>	<b>188</b>	<b>194</b>	<b>276</b>	<b>169</b>	<b>123</b>	<b>10</b>	<b>1400</b>

TABLE II.—ILLNESS REPORT AS RELATED TO THE DIFFERENT SCHOOLS

Diseases	College							Grad. Arts and Sciences	G. B.	Div.	Other Grad. Students	Totals
	1	2	3	4	Sp.	Occ.	Un.					
Abscesses . . . . .	4	2	..	1	..	2	..	..	..	..	..	9
Appendicitis . . . . .	4	3	1	5	..	2	1	..	..	..	..	16
Asthma . . . . .	3	..	..	..	..	..	..	..	..	..	..	3
Bronchitis . . . . .	13	10	5	3	..	2	1	..	..	..	..	34
Chicken-pox . . . . .	2	2	2	..	..	..	..	..	..	..	..	6
Colds—unclassified . . . . .	67	29	24	5	..	4	2	1	..	1	1	134
Coryza . . . . .	11	8	4	4	..	..	..	1	..	..	..	28
Diarrhoea . . . . .	5	3	..	..	..	..	..	..	..	..	..	8
Diphtheria . . . . .	1	1	..	..	..	..	..	..	..	..	..	2
Ear, of the . . . . .	4	7	4	3	..	1	..	1	..	..	..	20
Eye, of the . . . . .	34	24	22	10	..	..	3	1	..	..	..	94
General Debility . . . . .	30	16	18	3	..	4	..	5	..	..	..	71
German Measles . . . . .	27	2	4	3	..	2	2	..	..	..	1	41
Grippe . . . . .	52	24	32	15	..	11	9	4	4	1	4	156
Heart, of the . . . . .	5	3	..	3	..	..	1	..	..	..	..	12
Indigestion . . . . .	10	8	6	1	..	1	2	1	..	..	1	30
Infections, localized . . . . .	18	2	4	..	..	2	4	1	..	..	..	31
Insomnia . . . . .	..	..	2	3	..	..	..	1	..	..	..	6
Jaundice . . . . .	7	4	..	2	..	..	1	1	..	..	..	15
Laryngitis . . . . .	5	..	2	..	..	3	2	..	..	..	..	12
Lumbago . . . . .	..	..	..	1	..	1	..	..	..	..	..	2
Malaria . . . . .	..	..	1	1	..	..	..	1	..	..	..	3
Measles . . . . .	3	2	..	3	..	..	..	..	..	..	..	8
Miscellaneous Med. . . . .	87	67	32	17	..	9	9	13	2	2	2	240
Miscellaneous Surg. . . . .	66	41	23	5	..	6	6	3	2	2	1	155
Mumps . . . . .	9	7	5	1	..	..	2	1	2	..	..	27
Neuralgia . . . . .	..	..	2	..	..	..	..	..	..	..	..	2
Pharyngitis . . . . .	12	11	7	1	..	4	1	1	1	..	1	39
Pleuritis . . . . .	..	..	..	1	..	..	..	..	..	..	..	1
Pneumonia . . . . .	2	1	2	..	..	..	1	..	..	..	..	6
Rheumatism . . . . .	1	4	..	..	..	1	..	..	..	..	..	6
Scarlet Fever . . . . .	1	..	..	..	..	..	..	..	..	..	..	1
Skin, of the . . . . .	5	5	3	..	..	2	..	3	1	..	..	19
Teeth, of the . . . . .	9	9	4	2	..	..	..	..	..	..	..	24
Tonsillitis . . . . .	16	24	16	10	..	4	4	6	2	..	..	82
Whooping Cough . . . . .	..	1	..	..	..	..	..	..	..	..	..	1
No diagnosis . . . . .	26	18	7	3	..	4	..	3	..	..	..	56
<b>Totals . . . . .</b>	<b>539</b>	<b>383</b>	<b>227</b>	<b>106</b>	<b>..</b>	<b>65</b>	<b>51</b>	<b>48</b>	<b>14</b>	<b>6</b>	<b>11</b>	<b>1400</b>
<b>No. of Students . . . . .</b>	<b>559</b>	<b>446</b>	<b>359</b>	<b>215</b>	<b>..</b>	<b>102</b>	<b>296</b>	<b>237</b>	<b>98</b>	<b>59</b>	<b>..</b>	
<b>% of "Sign-offs" . . . . .</b>	<b>94</b>	<b>74</b>	<b>63</b>	<b>49</b>	<b>..</b>	<b>63</b>	<b>17</b>	<b>16</b>	<b>15</b>	<b>10</b>	<b>..</b>	
<b>No. of Students at Infirmary . . . . .</b>	<b>118</b>	<b>79</b>	<b>61</b>	<b>34</b>	<b>..</b>	<b>15</b>	<b>36</b>	<b>25</b>	<b>8</b>	<b>4</b>	<b>20</b>	
<b>% of "Sign-offs" . . . . .</b>	<b>21</b>	<b>17</b>	<b>16</b>	<b>15</b>	<b>..</b>	<b>14</b>	<b>12</b>	<b>9</b>	<b>8</b>	<b>6</b>	<b>..</b>	

TABLE III  
STILLMAN INFIRMARY

## LIST OF CASES, 1917-18

Abscesses . . . . .	4	Laryngitis . . . . .	4
Appendicitis . . . . .	11	Lumbago . . . . .	3
Asthma . . . . .	3	Malaria . . . . .	1
Bronchitis . . . . .	9	Measles . . . . .	2
Chicken-pox . . . . .	4	Miscellaneous Medical . . . . .	26
Colds—unclassified . . . . .	39	Miscellaneous Surgical . . . . .	42
Coryza . . . . .	3	Mumps . . . . .	21
Diphtheria . . . . .	1	Neuralgia . . . . .	1
Ear, of the . . . . .	6	Pharyngitis . . . . .	12
Eye, of the . . . . .	1	Pneumonia . . . . .	4
General Debility . . . . .	5	Rheumatism . . . . .	6
German Measles . . . . .	29	Skin, of the . . . . .	5
Grippe . . . . .	68	Tonsillitis . . . . .	47
Indigestion . . . . .	5	Whooping Cough . . . . .	1
Infections—localized . . . . .	24	No diagnosis . . . . .	7
Jaundice . . . . .	6	Total . . . . .	400
Room patients . . . . .			40
Ward patients . . . . .			360
Total . . . . .			400
Discharged—well . . . . .			274
“ relieved . . . . .			122
“ not relieved . . . . .			3
Died . . . . .			1
Total . . . . .			400
Total number of hospital days . . . . .			2,192
Daily average . . . . .			8.11
Total number of operations . . . . .			23
Operations for appendicitis . . . . .			7

## REPORT OF THE APPOINTMENT OFFICE

## FACULTY OF ARTS AND SCIENCES

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — I have the honor of presenting the Report of the Faculty Office for the year 1917-18.

The Appointment Office has never had a period of more difficulties than the year 1917-18. There have been 757 calls for men to fill educational positions. Of 56 candidates who filed their names for the first time in 1917-18, at least 15 have been called to War Service. For the same reason, of the men registered before 1917, 189 have had to withdraw their names temporarily from our lists. As a result of this loss, only 148 positions have been filled as follows:<sup>1</sup>

TABLE OF INSTITUTIONS

	Number of Calls Direct	Number of Calls through Agencies	Number of Posi- tions Filled	Number of Sala- ries Reported	Aggregate Salaries Reported
Colleges or Universities .....	300	8	55	41	\$68,000.00
Technical Schools .....	32	..	10	8	12,800.00
Government Schools .....	2	..	1	1	2,020.00
Normal Schools .....	5	..	..	..	....
Public Schools .....	87	30	8	5	7,100.00
Private Schools .....	304	6	47	38	55,170.00
State Board of Education .....	1	..	1	..	....
Young Men's Christian Ass'n. .	5	..	4	1	900.00
Young Men's Christian Union ..	1	..	..	..	....
Museum .....	1	..	1	1	1,500.00
Government Service .....	22	..	19	4	9,160.00
Social Service Institution .....	1	..	1	1	2,800.00
Bureau of Vocational Guidance .	1	..	1	1	2,800.00
French School in France .....	1	..	..	..	....
Totals .....	763	44	148	101	\$162,250.00
Positions filled in 1916-17 .....	.....	.....	215 <sup>2</sup>		

These figures in the tables evidently do not represent the number of positions filled during the past year directly or indirectly by Faculty recommendations. We have a report from one member of the Department of Geology that he has given letters to a number of older graduates of the University, recommending them for positions in some civilian branches of the Service or for Commissions in the Army or Navy. The Division of Chemistry explains its lack of teaching appointments by the fact that a number of the former students of Chemistry have entered departments of War Service. Other departments, no doubt, have had a similar experience.

Not included in the foregoing tables are positions that the Appointment Office has secured for three women: the wife of a young graduate of the

<sup>1</sup> Of these 148 positions it will be noticed that 19 are in the Government Service. Most, if not all, of these positions are of an educational nature.

Seven of the 148 men have reported their resignations to the Appointment Office.

<sup>2</sup> Of these 15 reported their resignations to the Appointment Office.

## POSITIONS FILLED — TABLE OF SUBJECTS

	Universities Colleges	Technical Schools	Government Schools	Public Schools	Private Schools	Board of Education	Y. M. C. A.	Museum	Government Service	Social Service Institution	Bureau Voc- ational Guidance	Totals
<b>GROUP I</b>												
<b>ANCIENT LANGUAGES:</b>												
Latin.....	..	..	..	..	1	..	..	..	..	..	..	1
with Administration.....	..	..	..	1	..	..	..	..	..	..	..	1
Latin and Greek.....	2	..	..	..	4	..	..	..	..	..	..	6
with English.....	..	..	..	..	1	..	..	..	..	..	..	1
" French.....	..	..	..	..	1	..	..	..	..	..	..	1
Greek and History.....	..	..	..	1	..	..	..	..	..	..	..	1
												<u>1</u> 11
<b>MODERN LANGUAGES:</b>												
English.....	23	5	..	..	9	..	..	..	..	..	..	37
with War Aims.....	..	1	..	..	..	..	..	..	..	..	..	1
German.....	1	1	..	..	4	..	..	..	..	..	..	6
with French.....	..	..	..	..	1	..	..	..	..	..	..	1
" Administration.....	..	..	..	..	1	..	..	..	..	..	..	1
French.....	2	..	..	..	3	..	1	..	..	..	..	6
with German.....	..	..	..	..	1	..	..	..	..	..	..	1
Romance Languages.....	7	1	1	1	2	..	..	..	..	..	..	<u>12</u> 65
Music.....	2	..	..	..	..	..	..	..	..	..	..	2
with French and History.....	..	..	..	..	1	..	..	..	..	..	..	<u>1</u> 3
FINE ARTS (Decorative).....	..	..	..	..	..	..	..	1	..	..	..	<u>1</u> 1
<b>GROUP II</b>												
PHYSICS.....	..	..	..	..	..	..	..	..	..	..	..	..
with Chemistry and Mathematics.....	..	..	..	..	1	..	..	..	..	..	..	1
CHEMISTRY.....	..	..	..	..	1	..	..	..	..	..	..	1
with Mathematics.....	..	..	..	..	1	..	..	..	..	..	..	1
BIOLOGY.....	2	..	..	..	1	..	..	..	4	..	..	7
Zoölogy.....	2	..	..	..	..	..	..	..	..	..	..	2
GEOLOGY.....	1	..	..	..	..	..	..	..	2	..	..	<u>3</u> 15
<b>GROUP III</b>												
<b>HISTORY, GOVERNMENT, &amp; ECONOMICS:</b>												
History.....	5	..	..	..	3	..	..	..	..	..	..	8
with Languages.....	..	..	..	..	1	..	..	..	..	..	..	1
" English.....	..	..	..	..	1	..	..	..	..	..	..	1
Economics.....	2	..	..	..	..	..	..	..	..	..	..	2
Government and Economics.....	1	..	..	..	..	..	..	..	..	..	..	1
Civics and Philanthropy.....	..	1	..	..	..	..	..	..	..	..	..	<u>1</u> 14
<b>EDUCATION</b>												
Superintendent.....	3	..	..	..	..	..	..	..	..	..	..	3
Principal.....	..	..	..	1	..	..	..	..	..	..	..	1
with Combined Subjects.....	..	..	..	1	..	..	..	..	..	..	..	1
Vocational Director.....	..	..	..	..	..	2	..	..	..	..	..	2
Social Service.....	..	..	..	..	..	..	..	..	1	..	..	1
Military Education.....	..	..	..	1	..	..	..	..	..	..	..	1
General Elementary Subjects.....	..	..	..	..	5	..	..	..	..	..	..	5
Physical Training.....	..	..	..	2	..	..	..	..	..	..	..	2
Extension Work.....	..	..	..	..	..	1	..	..	..	..	..	1
Investigator.....	..	..	..	..	..	..	..	..	..	1	..	1
Educational Secretary.....	..	..	..	..	..	1	..	..	..	..	..	<u>1</u> 19
Carried forward.....	..	..	..	..	..	..	..	..	..	..	..	128

## POSITIONS FILLED—TABLE OF SUBJECTS

	Universities Colleges	Technical Schools	Government Schools	Public Schools	Private Schools	Board of Education	Y. M. C. A.	Museum	Government Service	Social Service Institution	Bureau Vocational Guidance	Totals
Brought forward .....	..	..	..	..	..	..	..	..	..	..	..	128
GROUP IV												
PHILOSOPHY.....	1	..	..	..	..	..	..	..	..	..	..	1
MATHEMATICS .....	1	1	..	..	3	..	..	..	1	..	..	6
with Science and History .....	..	..	..	..	1	..	..	..	..	..	..	1
												8
GOVERNMENT SERVICE												
Army Hospitals .....	..	..	..	..	..	..	..	..	4	..	..	4
Navy Hospital.....	..	..	..	..	..	..	..	..	1	..	..	1
Education and Special Training Com- mittee .....	..	..	..	..	..	..	..	..	1	..	..	1
U. S. Bureau of Efficiency .....	..	..	..	..	..	..	..	..	1	..	..	1
War Risk Insurance .....	..	..	..	..	..	..	..	..	1	..	..	1
Bureau of Industrial Housing and Transportation.....	..	..	..	..	..	..	..	..	1	..	..	1
Bureau of Aircraft Production .....	..	..	..	..	..	..	..	..	1	..	..	1
Division of Physical Reconstruction...	..	..	..	..	..	..	..	..	1	..	..	1
Secretary of Legation .....	..	..	..	..	..	..	..	..	1	..	..	1
												12
Total .....	..	..	..	..	..	..	..	..	..	..	..	148

Medical School takes a teacher's position for which the Office could find no man; and two women formerly employed by the University take positions — one academic, the other commercial, that men have held hitherto. At least one of these three appointments means indirect service to the country in the War.

During the present year the greatest demand has been for teachers of science and mathematics, English, and French. Another urgent call has been for men to give military training in secondary schools. The Appointment Office, confronted with the impossibility of meeting this demand with teachers, made an appeal to the Bureau of Special Training and Requirements under the War Department. We have been assured that the War Department is working to take care of this need.

In its present dearth of young candidates the Office is studying the qualifications of formerly registered men forty-five years of age or older who may be in line for advancement. Some of these teachers have, and others have not, kept their record of progress and achievement up to date with the Office. Some of them have advanced normally, and have made their places in their own field. Others, from want of the same opportunities or from other circumstances, may never have been in positions which demanded their utmost effort. The Office may now be able to recommend men to positions for which in other years, in competition with a variety of candidates, they may not have had a chance for fair consideration. This

stress of circumstances, then, may be the occasion for developing qualities which might otherwise not have been recognized in teachers whose services we could ill afford to lose.

The Office has prepared a questionnaire to be sent with a letter to university appointment offices for the purpose of comparing notes as to organization, management, and conduct. This exchange of experience looks forward to closer coöperation among these university departments, the result of which ought to be greater unity, if not uniformity, of standards. Out of this unity should follow the habit of acting together. For example, when Harvard is asked to recommend a teacher for a country day school, if no fit Harvard man is available, we may confer with university appointment bureaus elsewhere. Last summer, in such a case, we consulted the Yale Bureau of Appointments, and were thus able to place satisfactorily a Yale man who had studied in the Harvard Summer School. We may confer with the university office in the neighborhood of the school seeking the teacher, or we may consult the office which, from correspondence, we know to be strong in any particular type of candidate. Such coöperation is bound, in the end, to make university appointment service more useful because more alive; it is bound to make schools feel that the university offices are sharing with them in a wholesome way their anxiety and responsibility in finding teachers fitted by training, experience and character to meet the needs of the individual school. Constant comparison of work done by different university appointment offices must bring more closely to our attention ways in which, by simplifying our methods, we may take a larger view of our responsibility in appointment work.

The University Appointment Office has been forced to realize that placement can no longer be its sole purpose, or even the beginning of its duty. In recommending teachers we are constantly hampered by the lack of adequate educational guidance in the case of Seniors who apply for positions, — men who are, nevertheless, sought as teachers by college preparatory schools. The recent interest of the Government in vocational education must make clear to the universities their obligation to the student who must be steered through a general education in his undergraduate course, to consider what he is going to do with his life when he leaves college, — a problem often as difficult for the man with traditions as for the man without them. War conditions do not give us pause in this matter, but rather show us that the time has come when every means must be used in counselling our undergraduates who need vocational advice, and who will seek it elsewhere if we do not offer it. And to guide all sorts and conditions of men, whether the training be for general education or specialized for profession or industry, we have means at command: the Committee on the Choice of Electives; the University Bureau of Vocational Guidance, whose officers are close enough to the industrial situation to be employed by the Government; the various Divisions and Departments of the University. All of these departments need to work together if we would enlarge the work by which undergraduates and men in the graduate and professional schools have been brought into contact with distinguished alumni of the University, representatives of the large business interests and the professions. Through all these means some connection may be made between a man's college course and his work in the future. The Harvard Appoint-

## GEOGRAPHICAL DISTRIBUTION

	Universities Colleges	Technical Schools	Government Schools	Public Schools	Private Schools	Board of Education	Y. M. C. A.	Museum	Government Service	Social Service Institution	Bureau Voc- ational Guidance	Totals for States	Totals for Divisions
<b>No. ATLANTIC DIVISION</b> ..	..	..	..	..	..	..	..	..	..	..	..	..	<b>77</b>
Maine .....	1	..	..	..	..	..	..	..	..	..	..	1	
New Hampshire .....	1	..	..	..	3	..	..	..	..	..	..	4	
Vermont .....	1	..	..	..	..	..	..	..	..	..	..	1	
Massachusetts .....	10	4	..	7	18	1	1	..	..	1	1	43	
Rhode Island .....	1	..	..	..	2	..	2	..	..	..	..	5	
Connecticut .....	..	..	..	..	8	..	..	..	..	..	..	8	
New York .....	3	2	..	..	1	..	..	1	..	..	..	7	
New Jersey .....	..	..	..	..	3	..	..	..	..	..	..	3	
Pennsylvania .....	3	..	..	..	2	..	..	..	..	..	..	5	
<b>So. ATLANTIC DIVISION</b> ..	..	..	..	..	..	..	..	..	..	..	..	..	<b>22</b>
Maryland .....	1	..	1	..	2	..	..	..	1	..	..	5	
District of Columbia ..	..	..	..	..	1	..	..	..	14	..	..	15	
West Virginia .....	1	..	..	..	..	..	..	..	..	..	..	1	
South Carolina .....	..	..	..	..	1	..	..	..	..	..	..	1	
<b>So. CENTRAL DIVISION</b> ..	..	..	..	..	..	..	..	..	..	..	..	..	<b>8</b>
Kentucky .....	1	..	..	..	..	..	..	..	..	..	..	1	
Tennessee .....	..	..	..	..	1	..	..	..	..	..	..	1	
Arkansas .....	1	..	..	..	..	..	..	..	..	..	..	1	
Texas .....	1	4	..	..	..	..	..	..	..	..	..	5	
<b>No. CENTRAL DIVISION</b> ..	..	..	..	..	..	..	..	..	..	..	..	..	<b>25</b>
Michigan .....	1	..	..	..	..	..	..	..	..	..	..	1	
Ohio .....	4	..	..	..	2	..	..	..	..	..	..	6	
Indiana .....	..	..	..	..	1	..	..	..	..	..	..	1	
Wisconsin .....	1	..	..	..	1	..	..	..	..	..	..	2	
Illinois .....	3	..	..	..	..	..	..	..	..	..	..	3	
Minnesota .....	4	..	..	..	..	..	..	..	..	..	..	4	
Iowa .....	4	..	..	..	..	..	..	..	..	..	..	4	
Missouri .....	1	..	..	1	..	..	..	..	..	..	..	2	
Kansas .....	1	..	..	..	..	..	..	..	..	..	..	1	
No. Dakota .....	1	..	..	..	..	..	..	..	..	..	..	1	
<b>WESTERN DIVISION</b> .....	..	..	..	..	..	..	..	..	..	..	..	..	<b>6</b>
Colorado .....	1	..	..	..	..	..	..	..	..	..	..	1	
California .....	..	..	..	..	1	..	..	..	..	..	..	1	
Washington .....	3	..	..	..	..	..	..	..	..	..	..	3	
Wyoming .....	1	..	..	..	..	..	..	..	..	..	..	1	
<b>CANADA</b> .....	5	..	..	..	..	..	..	..	..	..	..	5	<b>5</b>
<b>FRANCE</b> .....	..	..	..	..	..	..	1	..	3	..	..	4	<b>4</b>
<b>SWEDEN</b> .....	..	..	..	..	..	..	..	..	1	..	..	1	<b>1</b>
<b>Total positions</b> .....	<b>55</b>	<b>10</b>	<b>1</b>	<b>8</b>	<b>47</b>	<b>1</b>	<b>4</b>	<b>1</b>	<b>19</b>	<b>1</b>	<b>1</b>	<b>148</b>	<b>148</b>

ment Office was the pioneer in this country. That pioneer spirit must use the difficulties created by losing our teachers to the Service as a means to show us how to make clear the relation of our own work to the work of the various war activities calling on us now for help, and still more closely to strengthen our relation with those who are making the same struggle that we must make to keep such work as ours not merely alive but growing.

The foregoing report from Miss L. L. McCrady, who after two years' absence has returned to the Harvard Appointment Office, expresses the desire of that Office to be of service wherever it can, coöperating with other helpful institutions, jealous of none. All this, it believes, is implied, though not always recognized, in the name of Harvard.

L. B. R. BRIGGS, *Dean,*  
*Faculty of Arts and Sciences.*

REPORT OF THE APPOINTMENT OFFICE  
THE HARVARD ALUMNI ASSOCIATION

TO THE PRESIDENT OF THE UNIVERSITY: —

SIR, — I herewith submit the report of the Appointment Office of the Harvard Alumni Association for the year 1917-18.

The function of the Alumni Appointment Office is to place the alumni of the University in permanent business and technical positions. It coöperates with the Faculty, and with the Harvard Clubs throughout the country; and a report of their work, so far as there has been anything definite to report, has been included.

Naturally the decrease in the number of positions is explained by the war conditions, for the majority of the younger graduates (constituting the largest percentage of candidates placed) are in the service. The only Government positions listed are the civilian positions, — commissioned positions of any sort not being included.

The work of the National Service Bureau of the Alumni Association which is in direct charge of the Government positions and the general information for all branches of the service, has been continued during the past year, with the active coöperation of the Appointment Office. On the resignation in February of Laurence W. Morgan, '10, to enter the service, James H. Leonard, '11, volunteered his services as director. As the work of the Bureau is of a temporary nature and will probably cease with the coming of peace, no complete record of positions filled has been kept. What calls may come in from the Government will be handled in the future directly by the Appointment Office.

## ALUMNI ASSOCIATION (PERMANENT POSITIONS)

	Number of Positions Filled	Number of Salaries Reported	Amount of Salaries Reported
Accounting (Public) .....	1	1	\$900
Banking and Brokerage .....	6	6	5,230
Chemistry (Consulting) .....	2	2	2,700
Cotton .....	1	1	634
Economic Research and Statistical .....	3	3	5,400
Engineering (Civil) .....	2	2	3,534
Government Service .....	12	12	22,840
Accounting .....	2		
Computing — Mathe-			
matical .....	2		
Engineering .....	2		
Foreign trade .....	2		
Office .....	2		
Production .....	1		
Social .....	1		
Journalism .....	1	1	780
Manufacturing .....	30	30	45,620
Accounting—Executive .....	2		
Accounting—Cost work .....	2		
Chemistry .....	7		
Drafting .....	1		
Efficiency—Production .....	3		
Employment Manage-			
ment .....	2		
Engineering .....	2		
General-Operating .....	4		
Purchasing .....	1		
Selling .....	5		
Statistical .....	1		
Mercantile .....	4	4	4,420
Accounting .....	1		
Department Store .....	1		
General, Operating .....	2		
Real Estate .....	1	1	780
Secretaryships (Executive) .....	2	2	2,800
Telephone and Telegraph (Acct., Operating) .....	4	4	3,276
<b>Totals .....</b>	<b>69</b>	<b>69</b>	<b>\$98,906</b>

## ALUMNI ASSOCIATION (TEMPORARY POSITIONS)

	Number of Positions Filled	Total Amount Earned
Banking .....	1	\$85
Clerical Work .....	1	63
Drafting .....	1	10
Economic Research .....	1	300
Journalism .....	1	15
Statistical Work .....	1	93
Stenography .....	1	30
Totals .....	7	\$596

The Association does not primarily handle the temporary positions, these coming under the jurisdiction of the Students Employment Office, but certain positions call for full time work, although of a temporary nature, and must be undertaken, therefore, by men not working. Occasionally the temporary position may be one which was intended to be permanent but was not retained over a week or two.

Number of applications for men, permanent and temporary...	325
Number of positions filled, permanent and temporary .....	76
Number of applicants registered, (those actively available and those satisfied but available for advancement; and those now engaged in National Service, constituting nearly half the total number) .....	903

## FACULTY (PERMANENT BUSINESS POSITIONS)

	Number of Positions Filled	Number of Salaries Reported	Amount Salaries Reported
BUSINESS ADMINISTRATION, GRADUATE			
SCHOOL OF .....	12	11	\$21,056
( Accounting..... 2 )			
( Banking ..... 2 )			
( Civic Secretaryship .. 1 )			
GOVERNMENT:			
( Accounting..... 2 )			
( Production — Man-			
( ufacturing ..... 3 )			
( Shipping — Statisti-			
( cal ..... 2 )			
CHEMISTRY DIVISION (Manufacturing and			
Government) .....	9	2	3,300
ECONOMICS DIVISION .....	1	..	...
Totals .....	22	13	\$24,356

## HARVARD CLUB OF NEW YORK CITY

	Number of Positions Filled	Total Salaries Reported
Banking .....	3	\$6,500
Insurance .....	1	1,200
Government (Interpreting) .....	3	3,600
Totals .....	7	\$11,300

The club also filled 2 tutoring positions, but tutoring is counted in reports of Students and Faculty teaching offices.

## HARVARD CLUB OF CHICAGO

	Number of Positions Filled	Total Salaries Reported
Banking .....	1	....
Manufacturing (General—office) .....	2	....
Mining (Office—operating) .....	1	....
Railroading .....	1	....
Secretaryship .....	1	....
Totals .....	6	\$8,900

## HARVARD CLUB OF BUFFALO

	Number of Positions Filled	Total Salaries Reported
Manufacturing (Office) .....	1	\$988

## HARVARD ENGINEERING SOCIETY OF NEW YORK

	Number of Positions Filled	Number of Salaries Reported	Amount Salaries Reported
Civil Engineering (Contracting—Railroading)....		4	....
Mechanical Engineering .....		1	....
Total .....		5	\$12,380

## GEOGRAPHICAL DISTRIBUTION (PERMANENT POSITIONS)

	Alumni Association	Faculty	Harvard Clubs	Totals
NORTH ATLANTIC DIVISION:—				
Maine.....	1	..	..	1
Massachusetts.....	49	2	..	51
Rhode Island.....	1	..	..	1
Connecticut.....	..	1	..	1
New York.....	4	2	12	18
New Jersey.....	1	1	1	3
Pennsylvania.....	1	3	..	4
SOUTH ATLANTIC DIVISION:—				
Delaware.....	..	5	..	5
Maryland.....	2	..	..	2
District of Columbia.....	4	8	..	12
CENTRAL DIVISION:—				
Ohio.....	2	..	..	2
Illinois.....	1	..	6	7
Tennessee.....	1	..	..	1
WESTERN DIVISION:—				
Colorado.....	1	..	..	1
Washington.....	1	..	..	1
	69	22	19	110

A comparison for the past nine years of the number of *permanent* business positions filled, and the amounts earned, is as follows:—

	Alumni Associa- tion	Fac- ulty	Harvard Club of New York City	Other Harvard Clubs	Total Posi- tions Filled	Number Salaries Reported	Amount Salaries Reported	Average
1909-10	52	22	..	..	74	70	\$68,388	\$977
1910-11	66	46	..	..	112	85	76,992	906
1911-12	63	32	..	..	95	73	65,998	904
1912-13	99	40	..	..	139	129	125,793	975
1913-14	81	34	29	..	144	142	149,944	1,055
1914-15	78	60	21	..	159	130	125,094	962
1915-16	120	58	43	..	221	195	197,516	1,012
1916-17	85	34	11	4	134	122	156,921	1,286
1917-18	69	22	7	12	110	101	156,830	1,552

CHARLES JACKSON, *General Secretary*.

# REPORT OF THE SECRETARY FOR STUDENT EMPLOYMENT

TO THE PRESIDENT OF THE UNIVERSITY:—

SIR, — The following report, submitted by the Secretary of the Students' Employment Office, describes the work of that office for the year 1917-18.

The total earnings for the year were \$70,030.54, a decrease of \$2,521.80 over the year 1916-17. The number of men who applied for work was considerably less than in the previous year. The sum of \$26,145.00 was earned by men who were placed in the shipyards during the summer.

	1916-17	1917-18
Men registered for term-time work.....	596	502
Men who secured term-time work.....	437	350
Men registered for summer work.....	495	302
Men who secured summer work.....	162	159

The division of registration among the Departments of the University is as follows:—

	Term-time	Summer
College.....	406	207
Graduate.....	43	51
Law.....	21	10
Unclassified.....	20	10
Medical.....	5	13
Business.....	4	3
Dental.....	3	8
<b>Total.....</b>	<b>502</b>	<b>302</b>

Total number of men registered at the office, 1917-18 (88 duplicates) 804.

Men employed and amounts earned through the aid of the Students' Employment Office.

	Men Employed	Amount Earned 1916-17	1917-18
Term-time, 1916-17.....	437	\$40,443.95	
Term-time, 1917-18.....	350		\$24,682.32
Summer, 1917.....	162	\$32,108.39	
Summer, 1918.....	159		
Summer, 1918 (Shipyards).....	102		45,348.32
<b>Total.....</b>		<b>\$72,552.34</b>	<b>\$70,030.54</b>

## TERM-TIME EMPLOYMENT. September 24, 1917 — June 20, 1918

Positions	No. of Positions	Amount Earned	No. of Men Employed	Average Amount Earned Per Man
Agent.....	10	\$1,000.00	10	\$100.00
Assistant Paymaster.....	1	220.00	1	220.00
Attendant.....	2	15.00	4	3.75
Boys' Club.....	2	54.00	3	18.00
Caretaker.....	2	370.00	2	185.00
Chauffeur.....	9	484.50	9	53.83
Choreman.....	46	864.08	52	16.61
Clerk.....	133	2,206.88	134	16.46
Coach.....	2	90.00	2	45.00
Companion.....	4	444.00	4	111.00
Dancing Teacher.....	2	99.00	2	49.50
Door Tender.....	2	10.00	2	5.00
Draftsman.....	4	70.00	4	17.50
Errandman.....	5	2.95	5	.59
First Aid.....	3	45.00	1	45.00
Furnace Man.....	3	58.00	1	58.00
Gardener.....	20	110.73	20	5.53
Guide.....	47	49.80	12	4.15
Hat Checker.....	1	1.50	1	1.50
Hotel Employee.....	2	770.50	2	385.25
Investigator.....	4	11.00	4	2.75
Janitor.....	1	120.00	1	120.00
Librarian.....	4	331.00	4	82.75
Literary Work.....	1	6.00	1	6.00
Model.....	2	3.00	2	1.50
Monitor.....	124	766.81	124	6.18
Musician.....	10	283.00	10	28.30
Note-taker.....	3	50.00	3	16.66
Proctor.....	3	72.00	3	24.00
Proof Reader.....	4	68.00	4	17.00
Reader.....	7	270.00	7	30.00
Room for Services.....	9	774.00	9	86.00
Salesman.....	24	230.50	24	9.60
Secretary.....	14	2,422.28	14	173.02
Stenographer.....	14	121.46	14	8.67
Ticket Taker.....	3	5.75	3	1.91
Translator.....	6	87.10	6	14.51
Tutor.....	38	4,381.75	42	104.32
Tutor Companion.....	5	3,334.00	5	666.80
Typewriter.....	52	756.73	52	14.21
Usher.....	16	84.00	8	10.50
Waiter.....	47	2,129.10	47	45.30
Wood Chopper.....	148	1,075.55	148	7.19
Work for Fuel Administration.....	14	333.35	14	23.52
<b>Total.....</b>	<b>852</b>	<b>\$24,682.32</b>		

## SUMMER EMPLOYMENT

June 20, 1918 — September 23, 1918

Positions	No. of Positions	Amount Earned	No. of Men Employed	Average Amount Earned Per Man
Accountant.....	1	\$24.00	1	\$24.00
Boatman.....	1	195.00	1	195.00
Boys' Club Work.....	2	2,180.00	2	1,090.00
Camp Councillor.....	5	950.00	5	190.00
Caretaker.....	3	318.50	3	106.16
Chauffeur.....	2	228.00	2	114.00
Choreman.....	3	29.27	3	9.75
Clerk.....	7	356.70	7	50.95
Companion.....	4	915.00	4	228.75
Conductor.....	1	225.00	1	225.00
Farmer.....	7	1,298.37	7	182.62
Guide.....	13	114.48	3	28.62
Hotel Employee.....	1	300.00	1	300.00
Munition Work.....	1	225.00	1	225.00
Proctor.....	1	3.00	1	3.00
Salesman.....	1	100.00	1	100.00
Shipyards.....	102	26,145.00	102	256.32
Translator.....	2	16.90	2	8.45
Tutor.....	16	1,603.50	16	100.22
Tutor Companion.....	*22	10,119.00	23	435.82
Typewriter.....	1	1.50	1	1.50
Total.....	197	\$45,348.22		

\* Three not reported.

MORRIS GRAY, JR.,  
*Secretary for Student Employment.*

## ORDINARY DEGREES CONFERRED, 1914-18

	1914	1915	1916	1917	1918
Bachelors of Arts . . . . .	396	456	443	434	246
Bachelors of Arts out of course . . . . .	56	47	50	49	26
Bachelors of Science . . . . .	32	60	52	81	22
Bachelors of Science out of course . . . . .	18	9	9	10	8
Bachelors of Science in Civil Engineering . . . . .	..	..	10	16	33
Bachelors of Science in Electrical Engineering . . . . .	..	..	19	22	38
Bachelors of Science in Mechanical Engineering . . . . .	..	..	11	17	47
Bachelors of Science in Sanitary Engineering . . . . .	..	..	4	0	3
Bachelors of Science in Mining and Metallurgy . . . . .	..	..	1	8	6
Associate in Arts . . . . .	1	2	0	5	1
Bachelors of Divinity . . . . .	12	5	4	5	0
Masters of Divinity . . . . .	3	3	2	7	5
Doctors of Theology . . . . .	..	3	2	0	2
Bachelors of Laws . . . . .	155	144	168	188	64
Bachelors of Laws out of course . . . . .	13	22	25	19	15
Doctors of Law . . . . .	3	2	6	2	3
Doctors of Law out of course . . . . .	0	0	1	0	2
Doctors of Public Health . . . . .	2	2	2	1	2
Doctors of Medicine . . . . .	63	87	74	67	106
Doctors of Medicine out of course . . . . .	2	0	0	0	0
Doctors of Dental Medicine . . . . .	46	58	60	55	71
Doctors of Dental Medicine out of course . . . . .	10	0	0	0	0
Masters of Arts . . . . .	136	147	154	148	76
Master of Arts out of course . . . . .	0	0	1	0	0
Doctors of Philosophy . . . . .	60	58	52	67	45
Doctors of Science . . . . .	3	8	2	2	4
Doctors of Engineering . . . . .	..	..	1	1	0
Metallurgical Engineers . . . . .	1	0	2	1	0
Mining Engineers . . . . .	1	0	3	0	0
Masters in Civil Engineering . . . . .	11	4	1	0	0
Master in Civil Engineering out of course . . . . .	0	1	0	0	0
Masters in Mechanical Engineering . . . . .	0	2	0	0	0
Masters in Electrical Engineering . . . . .	13	10	0	0	0
Masters in Architecture . . . . .	1	8	10	6	2
Masters in Landscape Architecture . . . . .	10	9	1	3	2
Masters in Forestry . . . . .	6	0	0	0	1
Masters of Science in Botany . . . . .	0	2	1	2	0
Master of Science in Geology . . . . .	0	1	0	0	0
Masters of Science in Zoölogy . . . . .	0	1	2	1	1
Masters of Science in Applied Biology . . . . .	..	..	2	0	1
Masters of Science in Civil Engineering . . . . .	..	1	4	4	1
Masters of Science in Electrical Engineering . . . . .	..	10	4	6	3
Masters of Science in Mechanical Engineering . . . . .	..	4	4	1	2
Masters of Science in Sanitary Engineering . . . . .	..	..	1	2	0
Masters of Science in Forestry . . . . .	..	1	1	0	0
Masters of Science in Mining and Metallurgy . . . . .	..	1	0	1	1
Masters in Business Administration . . . . .	28	27	37	50	26
<b>Totals . . . . .</b>	<b>1082</b>	<b>1195</b>	<b>1226</b>	<b>1281</b>	<b>865</b>



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## TREASURER'S STATEMENT FOR 1917-18

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TO THE BOARD OF OVERSEERS OF HARVARD COLLEGE:—

The Treasurer submits the annual statement of the financial affairs of the University, for the year ending June 30, 1918.

The net income of the general investments for this period was divided at the rate of 5.15 per cent among the Funds to which these investments belong.

From the income of all bonds bought at a premium for general investments \$7,450.66 was credited to the various accounts concerned, and for special investments \$297.15, as the fair yearly repayment to make good the premiums at the maturity of the bonds.

CHARLES F. ADAMS, *Treasurer*.

Boston, November, 1918.

**EXHIBIT A****BALANCE SHEET**

June 30, 1918

**ASSETS****CASH IN BANKS:**

Treasurer—General, . . . . .	\$80,660.68	
Treasurer—Special—Schedule 1, . . . .	1,461.44	
Bursar, . . . . .	<u>20,147.27</u>	\$102,269.39

**ACCOUNTS RECEIVABLE:**

Term Bills of November, 1917, . . . . .	\$155.24	
Term Bills of January, 1918, . . . . .	1,317.93	
Term Bills of June, 1918, . . . . .	106,889.81	
Sundry accounts of Bursar's Office, . . . .	35,698.40	
Interest accrued, . . . . .	<u>1,941.21</u>	146,002.59

**INVENTORY—Stores, . . . . .** 10,847.85

**INSURANCE UNEXPIRED, . . . . .** 19,744.99

**INVESTMENTS:**

Securities—Special—Schedule 1, page 49, . . . . .	\$3,417,682.22	
Securities—General—Schedule 2, page 58, . . . . .	23,808,092.93	
Land and Buildings—Sp.—Sched. 1, p. 49, . . . . .	1,913,549.58	
Land and Buildings—Gen'l—Sched. 3, p. 66, . . . . .	<u>4,809,779.41</u>	33,949,104.14

**INCOME ADVANCED ON GENERAL INVESTMENTS, . . . . .** 8,446.75

**GENERAL SUSPENSE:**

Advances in Anticipation of Funds and Gifts or of income (net) Schedule 6, page 141, . . . . .	370,177.39	
	<u>\$34,601,093.10</u>	

**EXHIBIT A****BALANCE SHEET**

June 30, 1918

**LIABILITIES****ACCOUNTS PAYABLE:**

Salaries, . . . . .	\$156,750.40	
Other Accounts, . . . . .	22,000.00	
Deposits and Advance Payments, . . . . .	<u>22,210.57</u>	\$200,960.97

**FUNDS AND GIFTS, Schedule 4, page 68.**

Restricted uses, Income only available, . . .	\$28,424,827.71	
"        " Principal and Income available, . . .	1,822,122.25	
Unrestricted uses, Income only available, . .	2,633,806.39	
"        " Principal and Income avail- able, . . . . .	<u>862,698.47</u>	33,742,954.82

**GAINS AND LOSSES ON GENERAL INVESTMENTS SOLD, . . . .** 558,821.68

**RESERVES FOR DEPRECIATION AND MAINTENANCE, . . . .** 98,355.63

\$34,601,093.10

# **CONSOLIDATED STATEMENT OF INCOME AND EXPENDITURE**

For the year ended June 30, 1918

## **INCOME**

### **INCOME FROM FUNDS AND GIFTS**

	Income from Funds and Gifts	General Income	Total
<b>From SPECIAL INVESTMENTS,</b>			
Interest and Dividends — Schedule 1, . . .	\$142,872.68		
Rents of Land and Buildings, . . . . .	\$191,755.18		
Less Operating Expenses, . . . . .	84,094.20		
Net Income — Schedule 1, . . . . .	107,660.98		
<b>From GENERAL INVESTMENTS,</b>			
Interest and Dividends on			
Securities — Schedule 2, . . . . .	\$1,101,413.98		
Bank Balances, . . . . .	4,809.32		
Advances to Departments and Miscellaneous, . . . . .	16,767.01	1,122,490.31	
Rents of Land and Buildings, . . . . .	\$347,505.07		
Less Operating Expenses, . . . . .	56,375.70		
Net Income — Schedule 3, . . . . .	291,129.37		
Gifts for Immediate Use — Exhibit E, . . . . .	432,767.85		
Miscellaneous income included in receipts for departmental and non-departmental activities, . . . . .	159,382.23		
	<u>\$2,256,803.42</u>		<u>\$2,256,803.42</u>

### **GENERAL INCOME**

Tuition Fees, . . . . .	\$574,153.21		
Laboratory Fees, . . . . .	21,581.89		
Other Fees, . . . . .	22,753.91		
Gross Rents of College Dormitories, . . . . .	122,952.34		
Miscellaneous Income, . . . . .	969,981.77		
	<u>\$1,711,423.12</u>	1,711.4	
Total Income, . . . . .			<u>\$3,967,7</u>
General Suspense, balance, Exhibit C, Part II, page 12, . . . . .			70.7
	<u>\$2,256,803.42</u>	<u>\$1,711,423.12</u>	<u>\$4,038.4</u>

**EXHIBIT B**

**CONSOLIDATED STATEMENT OF INCOME AND EXPENDITURE**

For the year ended June 30, 1918

**EXPENDITURE**

	Income from Funds and Gifts	General Income	Totals
Administrative Purposes, . . . . .	\$4,372.44	\$238,739.29	\$243,111.67
Departments of Instruction, . . . . .	597,077.71	938,242.52	1,535,320.23
Other Activities, . . . . .	576,086.27	965,074.61	1,541,160.94
Aids, . . . . .	135,783.51	7,570.00	143,353.51
Repairs and equipment of College dormitories, . . . . .		26,180.30	26,180.30
Caretaking and operating expenses of College dormitories, . . . . .		85,992.59	85,992.59
Repairs and equipment of land and buildings for general purposes, . . . . .		11,271.87	11,271.87
Caretaking and operating expenses of land and buildings for general purposes, . . . . .		104,617.13	104,617.13
<b>Total Expenditure, . . . . .</b>	<b>\$1,313,319.93</b>	<b>\$2,377,688.31</b>	<b>\$3,691,008.24</b>
Balance of unexpended restricted income transferred to Funds and Gifts, Exhibit C, Part II, page 12, . . . . .	\$353,411.56		
Decrease in Income			
Unapportioned, . . . . .	\$2,499.54		
Income advanced, . . . . .	3,446.75	5,946.29	347,465.27
		<b>\$1,660,785.20</b>	
(Applied to purposes of general income), . . . . .		595,518.22	
(Less amount transferred from restricted income), . . . . .			595,518.22
		<b>\$1,782,170.09</b>	
(Less balance, contra), . . . . .		70,746.97	

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**\$2,256,303.42   \$1,711,423.12   \$4,038,473.51**

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# INCOME AND EXPENDITURE

For the year ended

Income

	Restricted	General	Totals
University (Sch. 7), . . . . .	\$313,250.64	\$886,187.27	\$1,199,887.91
College, including Graduate School of Arts and Sciences (Sch. 8), . .	627,853.60	487,802.70	1,115,156.30
Library (Sch. 9), . . . . .	100,870.72	2,501.84	102,872.06
Summer Schools (Sch. 11), . . . . .	792.50	24,489.75	25,282.25
Schools of Architecture and Landscape Architecture (Sch. 12), . . . . .	51,655.10	2,816.83	54,471.93
Schools of Engineering and Mining (Sch. 13), . . . . .	53,128.67	13,071.22	66,199.89
Graduate School of Business Adminis- tration (Sch. 14), . . . . .	44,863.53	16,191.99	61,055.52
Divinity School (Sch. 15), . . . . .	40,901.59	6,455.34	47,356.93
Law School (Sch. 16), . . . . .	53,696.90	45,833.33	99,530.23
Medical School (Sch. 17), . . . . .	382,808.83	147,012.94	529,821.77
Graduate School of Medicine (Sch. 18),	14,868.43	13,931.04	28,799.47
Dental School (Sch. 19), . . . . .	6,232.41	52,473.35	58,705.76
Bussey Institution (Sch. 20), . . . .	81,787.52	797.50	82,585.02
Arnold Arboretum (Sch. 21), . . . .	69,300.39	.....	69,300.39
Botanic Garden (Sch. 22), . . . . .	5,396.92	.....	5,396.92
Botanical Museum (Sch. 23), . . . .	1,616.04	.....	1,616.04
Gray Herbarium (Sch. 24), . . . . .	18,432.81	.....	18,432.81
Observatory (Sch. 25), . . . . .	58,191.91	.....	58,191.91
Blue Hill Meteorological Observatory (Sch. 26), . . . . .	7,280.31	.....	7,280.31
Museum of Comp. Zoölogy (Sch. 27),	53,508.15	.....	53,508.15
Peabody Museum of American Archae- ology and Ethnology (Sch. 28), . .	15,347.49	.....	15,347.49
Semitic Museum (Sch. 29), . . . . .	2,159.18	.....	2,159.18
Germanic Museum (Sch. 30), . . . . .	7,161.76	.....	7,161.76
William Hayes Fogg Art Museum (Sch. 31), . . . . .	13,473.34	.....	13,473.34
Appleton Chapel (Sch. 32), . . . . .	10,463.04	.....	10,463.04
Phillips Brooks House (Sch. 33), . .	5,909.57	.....	5,909.57
Gymnasium (Sch. 34), . . . . .	.....	541.00	541.00
Stillman Infirmary (Sch. 35), . . . .	4,914.29	11,867.52	16,781.81
<i>Less</i> Deficits included in the above expenditure of other departments and deducted to show the net expenditure, Hemenway Gymnasium, . . \$7,511.00 Stillman Infirmary, . . . . 9,605.39			
<b>Total for Departments, . . . . .</b>	<b>\$1,995,365.64</b>	<b>\$1,711,423.12</b>	<b>\$3,706,788.76</b>
<b>Non-departmental Funds and Gifts for Special Purposes (Sch. 36), . . . .</b>	<b>266,884.07</b>	<b>.....</b>	<b>266,884.07</b>
	<b>\$2,262,249.71</b>	<b>\$1,711,423.12</b>	<b>\$3,973,672.83</b>
<b>Income, on general investments, un- apportioned, . . . . .</b>	<b>\$2,499.54</b>		
<b>Advanced, . . . . .</b>	<b>3,446.75</b>	<b>5,946.29</b>	<b>5,946.29</b>
<b>Totals to Part II, . . . . .</b>	<b>\$2,256,308.42</b>	<b>\$1,711,423.12</b>	<b>\$3,967,726.54</b>

\* A department may have both a balance and a deficiency in its analyzed figures.

# EXHIBIT C, PART I

## BY DEPARTMENTS

June 30, 1918

Expenditure		Balances *	Analysis of Balances				
			Balances of income from restricted funds reserved for restricted purposes.	Excess of expenditure from restricted funds net from balances brought from previous years or from other sources.	Balances of general income allotted to the department, or balances of income from specific funds applied to repay former advances.	Excess of expenditure over income allotted to the department.	
\$1,070,108.05	\$180,708.07	\$1,423.21	\$129,941.14	\$1,268.33	\$766.93	\$154.88	
1,024,585.70	150,490.83	59,930.28	148,871.28	57,299.98	2,119.55	2,620.25	
146,488.71	16,088.64	59,655.29	16,083.82	54,059.73	4.82	5,595.56	
29,556.63	792.50	5,066.88	792.50	.....	.....	5,066.88	
39,356.77	20,075.67	4,960.51	20,075.67	4,960.51	.....	.....	
118,503.86	1,047.03	53,850.50	1,047.03	53,850.50	.....	.....	
60,235.08	3,107.82	2,287.32	3,107.82	1,705.88	.....	581.50	
49,148.46	1,639.39	3,430.92	1,080.64	3,430.92	558.75	.....	
121,809.06	9,453.77	31,732.60	9,453.77	147.50	.....	81,585.10	
435,975.05	126,768.35	32,921.63	125,863.58	9,131.34	904.77	23,790.29	
27,804.69	3,085.48	2,040.70	3,085.48	285.02	.....	1,755.68	
72,039.46	298.37	13,632.07	298.37	4,278.60	.....	9,353.47	
39,754.86	4,544.81	11,714.65	1,990.74	11,714.65	2,554.07	.....	
67,376.45	2,784.17	860.23	2,784.17	860.28	.....	.....	
9,205.88	.....	3,808.96	.....	.....	.....	3,808.96	
2,453.51	.....	837.47	.....	176.10	.....	661.37	
18,355.62	77.19	.....	.....	.....	77.19	.....	
55,845.38	6,833.13	4,486.60	6,833.13	4,486.60	.....	.....	
5,401.81	1,878.50	.....	1,878.50	.....	.....	.....	
50,162.43	3,833.00	487.28	422.64	487.28	3,410.36	.....	
14,966.44	2,327.15	1,946.10	1,255.43	1,946.10	1,071.72	.....	
2,106.00	109.34	56.16	109.34	56.16	.....	.....	
2,298.92	6,000.89	1,138.05	3,952.03	1,138.05	2,048.86	.....	
13,231.64	488.43	296.73	488.43	296.73	.....	.....	
9,852.67	610.37	.....	610.37	.....	.....	.....	
4,090.46	1,819.11	.....	1,819.11	.....	.....	.....	
8,052.00	.....	.....	.....	.....	.....	.....	
25,924.35	515.00	52.15	515.00	.....	.....	52.15	
<b>\$3,524,684.39</b>							
17,116.39							
<b>\$3,507,568.00</b>	<b>\$495,327.01</b>	<b>\$296,106.25</b>	<b>\$481,809.99</b>	<b>\$211,080.16</b>	<b>\$18,517.02</b>	<b>\$85,026.09</b>	
183,440.24	106,201.81	22,757.98	105,439.71	22,757.98	762.10	.....	
<b>\$3,691,008.24</b>	<b>\$601,528.82</b>	<b>\$318,864.23</b>	<b>\$587,249.70</b>	<b>\$233,838.14</b>	<b>\$14,279.12</b>	<b>\$85,026.09</b>	
.....	5,946.29	.....	5,946.29	.....	.....	.....	
<b>\$3,691,008.24</b>	<b>\$595,582.53</b>	<b>\$318,864.23</b>	<b>\$581,308.41</b>	<b>\$233,838.14</b>	<b>\$14,279.12</b>	<b>\$85,026.09</b>	

for some specific restricted funds may have balances and some may have deficiencies.

**EXHIBIT C, PART II****SUMMARY OF ANALYZED INCOME AND  
EXPENDITURE****NET ACCUMULATION OF INCOME**

Income, . . . . .	\$3,967,726.54	
Expenditures, . . . . .	<u>3,691,008.24</u>	
Net accumulation, . . . . .		<u><u>\$276,718.30</u></u>

**SUMMARY OF BALANCES AND DEFICIENCIES**

Departments and activities with balances of unex- pended income, . . . . .	\$595,582.53	
Departments and activities with deficiencies of income, . . . . .	<u>818,864.23</u>	
Net accumulation, . . . . .		<u><u>\$276,718.30</u></u>

**DISTRIBUTION OF BALANCES AND DEFICIENCIES**

Departmental balances of income from restricted funds, . . . . .	\$481,809.99	
Departmental deficits of income from restricted funds, . . . . .	<u>211,080.16</u>	
Departmental balances reserved for restricted purposes, . . . . .		\$270,729.83
Non-departmental balances of income from restricted funds, . . . . .	\$105,489.71	
Non-departmental deficits of income from restricted funds, . . . . .	<u>22,757.98</u>	
Non-departmental balances reserved for re- stricted purposes, . . . . .		<u>82,681.73</u>
Total unexpended restricted income transferred to Funds and Gifts, . . . . .		\$353,411.56
Income unapportioned from pre- vious years, . . . . .	\$2,499.54	
Income advanced, . . . . .	<u>3,446.75</u>	<u>5,946.29</u>
		<u>\$347,465.27</u>
Deficits of income from general income, . . . . .	\$85,026.09	
Balances of income from general income, . . . . .	<u>14,279.12</u>	
Net balance carried to Exhibit B, . . . . .		<u><u>70,746.97</u></u>
		<u><u>\$276,718.30</u></u>

**EXHIBIT D****GIFTS FOR CAPITAL**

For the year ended June 30, 1918

**ESTABLISHING NEW FUNDS OR INCREASING OLD ONES****Arnold Arboretum:****Endowment Fund:**

Ernest B. Dane . . . . .	\$20,000.00	
George von L. Meyer . . . . .	200.00	
George D. Pratt . . . . .	1,000.00	
Richard M. Saltonstall . . . . .	5,000.00	
Abraham Shuman . . . . .	200.00	
John E. Thayer . . . . .	5,000.00	
Mrs. W. Seward Webb . . . . .	2,500.00	\$33,900.00

**"Massachusetts Society for Promoting Agriculture Fund":**

Massachusetts Society for Promoting Agriculture . . . . .	500.00
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**Bayard and Ruth S. Thayer Fund:**

Mrs. Bayard Thayer:	
Securities valued at . . . . .	5,000.00

**Graduate School of Business Administration:****Endowment Fund:**

Oakes Ames . . . . .	\$1,000.00	
Arthur F. Estabrook . . . . .	1,000.00	2,000.00

**Bussey Institution — Graduate School of Applied Biology:****Anna C. Ames Scholarship:****Oakes Ames:**

In memory of his mother, Anna C. Ames. "The income is to be available for one or more scholarships in the Bussey Institution of Applied Biology

Amount carried forward, . . .	\$41,400.00
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Amount brought forward, . . . \$41,400.00

**Bussey Institution — Graduate School of Applied  
Biology (*continued*):**

**Anna C. Ames Scholarship (*continued*):**

on condition that the applicant if a zoölogist must take at least one of the courses of Botany offered by the University, or if a botanist at least one of the courses of Zoölogy. If more than one scholarship is awarded the income from the fund may be proportioned in accordance with the wishes of the Dean of the Bussey Institution. . . ."

10,000.00

**College:**

"Victor Emanuel Chapman Memorial Fellowship": . . . . .

30.00

James A. Noyes  
Miss Penelope B. Noyes

**Class of 1858 Fund:**

Additional . . . . .

368.00

**Samuel C. Cobb, Estate of:**

Additional, on account of his bequest .

4,000.00

**William Everett Fund:**

Frederic H. Curtiss, *et al.* Trustees of the  
William Everett Fund (Adams Academy):

"to Harvard College to create the William Everett Fund, the income to be used for such purposes as the President and Fellows shall determine.":

Securities valued at . . . . .

4,112.00

**Charles W. Hubbard Fund:**

Charles W. Hubbard:

To the Division of Education "subject to such use (general or particular)

Amount carried forward, . . .

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\$59,910.00

## GIFTS FOR CAPITAL

15

Amount brought forward, . . . \$59,910.00

College (*continued*):Charles W. Hubbard Fund (*continued*):

as may be advised by . . . the chairman of the department committee.”:  
Securities valued at . . . . . 10,000.00

## Maria E. McMaster (Mrs. William E. McMaster), Estate of:

Her residuary bequest to “the Department for Psychical Research in Harvard College. . . .” . . . . . 6,859.98

## “William Henry Meeker ’17 Scholarship”:

## Henry E. Meeker:

In memory of his son, William Henry Meeker, of the Class of 1917, the income “to be awarded for excellence in some of the English courses. . . .” 4,000.00

## “The Stanley Bagg Pennock Scholarship”:

## John D. Pennock:

“to establish a scholarship of \$250 a year, to be given to that indigent senior student in college who, specializing in chemistry and intending to follow a chemical career, is judged by the chemical faculty to be worthy of it through conscientious effort and reasonably high standing. The scholarship is to be a memorial for my son and to be known as ‘The Stanley Bagg Pennock Scholarship’.”:  
Securities valued at . . . . . 5,000.00

## Josiah Royce Memorial Fund:

The income is restricted until a certain specified time, after which it shall be available for the use of “the Department of Philosophy of Harvard Col-

Amount carried forward, . . . \$85,769.98

Amount brought forward, . . .

\$85,769.98

College (*continued*):Josiah Royce Memorial Fund (*continued*):

lege, to be used in such ways as the  
Department shall decide from year to  
year. . . .":

George R. Agassiz . . . . .	\$250.00	
Rodolphe L. Agassiz . . . . .	200.00	
Anonymous:		
Securities valued at . . . . .	200.00	
W. Franklin Brush . . . . .	50.00	
Philip Burnet . . . . .	50.00	
I. Tucker Burr . . . . .	100.00	
Richard C. Cabot and Mrs. Cabot . . . . .	1,000.00	
Alexander Cochrane . . . . .	500.00	
Charles W. Eliot . . . . .	50.00	
Mrs. Elizabeth G. Evans . . . . .	25.00	
Alexander Forbes . . . . .	200.00	
Mrs. Waldo E. Forbes . . . . .	50.00	
Mrs. Henry Copley Greene:		
Securities valued at . . . . .	100.00	
William Ernest Hocking . . . . .	25.00	
Charles C. Jackson . . . . .	100.00	
Joseph Lee . . . . .	250.00	
Mrs. William Caleb Loring . . . . .	100.00	
Miss Annie L. Sears . . . . .	150.00	3,400.00

## "Jerome Wheelock Fund ":

## Jerome Wheelock, Estate of:

Additional, on account of his bequest of \$100,000 . . . . .	10.00
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## Dental School:

## Endowment Fund:

George H. Monks . . . . .	300.00
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## Dental School Endowment of the Class of 1891:

William F. Sharpe . . . . .	20.00
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## Dental School Endowment of the Class of 1893:

Members of the Class . . . . .	100.00
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Amount carried forward, . . . . .	\$89,599.98
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Amount brought forward, . . .	\$39,599.98
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**Divinity School:**

**Francis Greenwood Peabody Professorship of  
Social Ethics and Pastoral Care:**

Earl M. Wilbur . . . . .	25.00
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**Law School:**

**Byrne Professorship of Administrative Law:**

**James Byrne:**

His subscription to the Harvard Endowment Fund, with the special designation that it is given "for the purpose of founding a professorship on administrative law in the Harvard Law School . . .":

Securities valued at . . . . .	129,959.00
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**Endowment Fund:**

**From sundry subscribers:**

Cash . . . . .	\$6,200.00	
Securities valued at . . . . .	50.00	6,250.00

**Library:**

**"Edwin Swift Balch Fund, Class of 1878":**

**Edwin Swift Balch:**

"the income shall be expended in the purchase of books for the Harvard College Library relating especially: first, to the Fine Arts, glyptic and graphic, in the broadest sense of the term and including all primitive arts such as those of the American Indians or the African Negroes; and second, to Geography, also in the broadest modern sense of the term, and including books of travel and exploration as well as scientific geographical works.":

Securities valued at . . . . .	5,000.00
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Amount carried forward, . . . .	\$230,833.98
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Amount brought forward, . . .	\$230,833.98
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Library (*continued*):

## Horace Davis, Estate of:

His bequest "To Harvard University Library . . . the income to be used for the purchase of books relating to the North Pacific Ocean and its shores ;" . . . . .	10,000.00
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## Peter Paul Francis Degrand, Estate of:

Additional, on account of his bequest .	12,182.15
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## Medical School:

## "Edward Hickling Bradford Fellowship":

## Anonymous:

"the income (to be) used for a fellowship in medical research to be known as the Edward Hickling Bradford Fellowship. . . ." . . . . .	25,000.00
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## "John White Browne Scholarship":

## Rebecca A. Greene (Mrs. Francis B. Greene), Estate of:

"for the purpose of founding a scholarship to be known as the John White Browne Scholarship.":

Cash . . . . .	\$298.88	
Securities valued at . . . . .	18,287.50	18,586.38

## "Dr. Henry Isaiah Dorr Chair of Research and Teaching in Anaesthetics and Anaesthesia":

## Henry Isaiah Dorr:

## Additional:

Securities valued at . . . . .	30,000.00
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Amount carried forward, . . . . .	\$326,602.51
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Amount brought forward, . . . \$328,602.51

Medical School (*continued*):

M. Douglas Flattery Prize Fund:

M. Douglas Flattery:

"the income to be used annually for the purpose of giving a Gold Medal and \$500 in cash to the person whom they (the President and Fellows of Harvard College) might judge to have made a discovery in any branch of science that would result in the greatest good to Humanity in the direction of the Prevention of Disease or the Conservation of Health, in the broadest sense.":

Securities valued at . . . . . 7,500.00

Observatory:

"The Henry Draper Memorial Fund":

Mary Anna Palmer Draper (Mrs. Henry Draper), Estate of:

Additional, on account of her bequest of \$150,000 . . . . . 7,500.00

Phillips Brooks House:

Phillips Brooks House Association Endowment Fund:

George S. Fiske . . . . . 1,000.00

University:

Anonymous Fund No. 4:

Additional . . . . . 50,000.00

J. Arthur Beebe, Estate of:

Additional, on account of his residuary bequest . . . . . 15,000.00

Amount carried forward, . . . \$407,602.51

Amount brought forward, . . .	\$407,602.51
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University (*continued*):

## S. Parkman Blake and Robert Parkman Blake Memorial:

## Mrs. S. Parkman Blake:

As a memorial to her husband S. Parkman Blake, of the Class of 1855, and to her son Robert Parkman Blake, of the Class of 1894, the income to "be used for the care of the Yard or other grounds of the University . . . should the money be needed for other purposes at any time, I beg that it be put to whatever service seems wisest." . .	50,000.00
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## Class of 1893 Fund:

## Twenty-fifth Anniversary Fund:

Cash . . . . .	\$52,733.88	
Securities valued at . . . . .	47,266.12	100,000.00

## Class of 1894 Fund:

## Twenty-fifth Anniversary Fund:

Additional . . . . .	1,300.00
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## Class of 1899 Fund:

## Twenty-fifth Anniversary Fund:

Additional . . . . .	5,000.00
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## Harvard Endowment Fund:

## From sundry subscribers:

Cash . . . . .	\$1,000.00	
Securities valued at . . . . .	22,000.00	23,000.00

## Robert Darrah Jenks Scholarship:

## Mrs. Robert D. Jenks and Mrs. William Furness Jenks:

In memory of Robert Darrah Jenks, of the Class of 1897, the income to be applied, during the war, for such war measures as the University may desire; after the war, the income is to

Amount carried forward, . . .	\$586,902.51
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Amount brought forward, . . . \$586,902.51

University (*continued*):

Robert Darrah Jenks Scholarship (*continued*):

support a scholarship in railroad law,  
to be known as the Robert Darrah  
Jenks Scholarship . . . . . 5,500.00

Morris Longstreth, Estate of:

Additional, on account of his residuary  
bequest . . . . . 198.81

Robert C. McIlwain, Estate of:

His residuary bequest "to the Presi-  
dent and Fellows of Harvard Univer-  
sity. . . ." . . . . . 2,968.49

"Gordon McKay Endowment":

Gordon McKay, Estate of:

Additional, on account of his residuary  
bequest:  
Cash . . . . . \$95,484.80  
Securities valued at . . . . . 55,433.34    150,918.14

Museum of Comparative Zoölogy:

"Maria Whitney and James Lyman Whitney  
Fund":

James Lyman Whitney, Estate of:

Additional, on account of his residuary  
bequest . . . . . 58.75

Total, . . . . . \$746,546.70

**GIFTS FOR IMMEDIATE USE**

For the year ended June 30, 1918

**Arnold Arboretum:****To increase the income:**

Thomas Allen . . . . .	\$100.00
Oliver Ames . . . . .	100.00
Lars Anderson and Mrs. Anderson . . . . .	200.00
Anonymous . . . . .	100.00
Samuel Appleton . . . . .	100.00
Walter C. Baylies . . . . .	100.00
Mrs. James H. Beal . . . . .	100.00
C. Philip Beebe . . . . .	100.00
E. Pierson Beebe . . . . .	200.00
Frank B. Bemis . . . . .	100.00
William Sturgis Bigelow . . . . .	500.00
George Nixon Black . . . . .	100.00
Mrs. Francis Blake . . . . .	100.00
Mrs. Edward D. Brandeggee . . . . .	100.00
Miss Sarah F. Bremer . . . . .	100.00
Peter C. Brooks . . . . .	200.00
Albert C. Burrage . . . . .	100.00
"E. S. C." . . . . .	100.00
Miss Louise W. Case . . . . .	100.00
Mrs. William J. Chittenden . . . . .	10.00
Alexander Cochrane . . . . .	100.00
Mrs. James M. Codman . . . . .	100.00
William R. Coe . . . . .	100.00
Miss Alice S. Coffin . . . . .	100.00
Charles A. Coffin . . . . .	100.00
T. Jefferson Coolidge . . . . .	100.00
Charles E. Cotting . . . . .	100.00
Frederick G. Crane . . . . .	100.00
Richard T. Crane, Jr. . . . .	500.00
W. Murray Crane . . . . .	100.00
Zenas M. Crane . . . . .	100.00
Mrs. Charles H. Dalton . . . . .	100.00
Mrs. Ernest B. Dane . . . . .	1,000.00
Mrs. Arthur E. Davis . . . . .	100.00
Mrs. Robert L. Day . . . . .	10.00
William B. H. Dowse . . . . .	100.00
George A. Draper . . . . .	100.00
Henry A. Du Pont . . . . .	1,000.00

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 Amount carried forward, . . . \$6,520.00

Amount brought forward, . . . \$6,520.00

Arnold Arboretum (*continued*):

To increase the income (*continued*):

Henry F. Du Pont . . . . .	1,000.00
Pierre S. Du Pont . . . . .	1,000.00
Miss Hannah M. Edwards . . . . .	100.00
Mrs. Thomas J. Emery . . . . .	500.00
William Endicott . . . . .	100.00
Arthur F. Estabrook . . . . .	100.00
Mrs. Joseph S. Fay . . . . .	100.00
Mrs. L. Carteret Fenno . . . . .	500.00
Mrs. W. Scott Fitz . . . . .	100.00
Desmond FitzGerald . . . . .	100.00
Mrs. James G. Freeman . . . . .	100.00
Mrs. Cornelia A. French . . . . .	100.00
Mrs. Louis A. Frothingham . . . . .	1,000.00
William A. Gaston . . . . .	100.00
Mrs. William A. Gaston . . . . .	50.00
Mrs. Henry S. Grew . . . . .	100.00
Miss Elizabeth S. Hallett . . . . .	50.00
Miss Louise G. Hallett . . . . .	100.00
Theodore A. Havemeyer . . . . .	500.00
Anton G. Hoenpyl . . . . .	100.00
Henry Hornblower . . . . .	100.00
Clement S. Houghton . . . . .	100.00
Henry S. Howe . . . . .	100.00
Henry S. Hunnewell . . . . .	500.00
Charles L. Hutchinson . . . . .	200.00
Mrs. Oscar Isagi . . . . .	100.00
George G. Kennedy . . . . .	100.00
Nathaniel T. Kidder . . . . .	100.00
Mrs. David P. Kimball . . . . .	100.00
Horatio A. Lamb and Mrs. Lamb . . . . .	100.00
Mrs. Gardiner M. Lane . . . . .	100.00
Mrs. Amory A. Lawrence . . . . .	100.00
Lester Leland . . . . .	25.00
Mrs. John M. Longyear . . . . .	50.00
Mrs. William Caleb Loring . . . . .	100.00
John Lowell . . . . .	100.00
Arthur Lyman . . . . .	50.00
Cyrus H. McCormick . . . . .	200.00
Miss Fanny P. Mason . . . . .	100.00
Massachusetts Society for Promoting Agriculture . . . . .	2,000.00
George von L. Meyer . . . . .	100.00
George H. Mifflin . . . . .	100.00

Amount carried forward, . . . \$16,845.00

Amount brought forward, . . . \$16,845.00

Arnold Arboretum (*continued*):

To increase the income (*continued*):

Miss Susan Minns . . . . .	100.00
Mrs. J. Pierpont Morgan, Jr. . . . .	100.00
Miss Lydia T. Morris . . . . .	100.00
Mrs. John T. Morse . . . . .	100.00
Frederick S. Moseley . . . . .	100.00
Robert Osgood . . . . .	100.00
Frank E. Peabody . . . . .	100.00
John E. Peabody . . . . .	100.00
Charles L. Peirson . . . . .	100.00
Mrs. John C. Phillips . . . . .	50.00
Stephen W. Phillips and Mrs. Phillips . . . . .	100.00
Dudley L. Pickman . . . . .	100.00
Mrs. Dudley L. Pickman . . . . .	100.00
Wallace L. Pierce . . . . .	100.00
David Pingree . . . . .	500.00
Laban Pratt . . . . .	100.00
William L. Richardson . . . . .	100.00
Mrs. Robert S. Russell . . . . .	100.00
Samuel Sachs . . . . .	50.00
Mrs. John L. Saltonstall . . . . .	300.00
Richard M. Saltonstall . . . . .	100.00
Charles S. Sargent and Mrs. Sargent . . . . .	250.00
Charles S. Sargent, Jr. . . . .	100.00
Mrs. Lucius M. Sargent . . . . .	100.00
Mrs. J. Montgomery Sears . . . . .	100.00
Mrs. Knyvet W. Sears . . . . .	100.00
Mrs. Richard D. Sears . . . . .	100.00
Mrs. G. Howland Shaw . . . . .	50.00
Frederic E. Snow . . . . .	100.00
John T. Spaulding } . . . . .	50.00
William S. Spaulding }	
Charles A. Stone and Mrs. Stone . . . . .	200.00
Galen L. Stone . . . . .	500.00
Nathaniel H. Stone . . . . .	100.00
Charles E. Stratton . . . . .	100.00
Charles H. Tenney . . . . .	500.00
Mrs. Bayard Thayer . . . . .	100.00
John E. Thayer . . . . .	500.00
Mrs. Nathaniel Thayer . . . . .	100.00
William Boyce Thompson . . . . .	10.00
Louis C. Tiffany . . . . .	100.00
Charles H. Tyler . . . . .	50.00
Mrs. French Vanderbilt . . . . .	100.00

Amount carried forward, . . . \$22,755.00

Amount brought forward, . . . \$22,755.00

**Arnold Arboretum (*continued*):**

**To increase the income (*continued*):**

William Austin Wadsworth . . . . .	100.00	
Charles C. Walker . . . . .	100.00	
Edwin S. Webster and Mrs. Webster	200.00	
Frank G. Webster and Mrs. Webster	200.00	
Laurence J. Webster and Mrs. Webster	200.00	
Mrs. Charles G. Weld . . . . .	100.00	
C. Minot Weld . . . . .	100.00	
Stephen M. Weld and Mrs. Weld .	200.00	
Mrs. William G. Weld . . . . .	100.00	
William P. Wharton . . . . .	100.00	
Mrs. Stephen G. Wheatland . . .	100.00	
George R. White . . . . .	1,000.00	
William Whitman . . . . .	100.00	
John D. Williams . . . . .	100.00	
Robert Winsor . . . . .	100.00	
William M. Wood . . . . .	100.00	
		<b>\$25,655.00</b>

**Korean Expedition:**

Philip E. Bowles . . . . .	\$100.00	
Robert N. Burgess . . . . .	250.00	
Francis J. Carolan . . . . .	50.00	
R. and J. Farquhar and Company .	500.00	
Herbert Fleishhacker . . . . .	50.00	
John McLaren . . . . .	50.00	
The MacRorie-McLaren Company .	50.00	
Vanderlynn Stow . . . . .	250.00	
Sundry subscriptions from persons in England, through F. R. S. Balfour	1,430.88	
J. C. Williams . . . . .	475.00	
		<b>3,205.88</b>

**Graduate School of Arts and Sciences:**

**Loan Fund:**

Sundry subscriptions, through Charles H. Haskins . . . . .	151.50
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**Bermuda Biological Station for Research:**

**General purposes:**

George R. Agassiz . . . . .	\$200.00	
Rodolphe L. Agassiz . . . . .	200.00	
Amounts carried forward, . . .	\$400.00	<b>\$29,012.38</b>

Amounts brought forward, . . .	\$400.00	\$29,012.38
<b>Bermuda Biological Station for Research (continued):</b>		
<b>General purposes (continued):</b>		
Arthur A. Carey . . . . .	25.00	
Mrs. Ernest B. Dane . . . . .	500.00	
Frederick P. Fish . . . . .	100.00	
Alexander Forbes . . . . .	100.00	
Nathaniel T. Kidder . . . . .	50.00	
Dudley L. Pickman . . . . .	100.00	
James F. Porter . . . . .	50.00	
Frederick Cheever Shattuck . . . .	100.00	
William S. Spaulding . . . . .	25.00	1,450.00
<hr/>		
<b>Salaries:</b>		
Miss Edith N. Buckingham . . . .	\$5.00	
Mrs. N. Penrose Hallowell . . . .	50.00	
Mrs. David P. Kimball . . . . .	50.00	
Julian W. Mack . . . . .	25.00	
Miss Ellen F. Mason . . . . .	20.00	
Mrs. Henry Parkman . . . . .	25.00	175.00
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<b>Blue Hill Meteorological Observatory:</b>		
<b>Salaries:</b>		
Mrs. A. Lawrence Rotch . . . . .		4,250.00
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<b>Botanical Museum:</b>		
<b>Present use:</b>		
Anonymous . . . . .		1,500.00
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<b>Graduate School of Business Administration:</b>		
<b>Guaranteed Deficit Fund:</b>		
Anonymous . . . . .	\$500.00	
Robert W. Atkins . . . . .	250.00	
Walter C. Baylies . . . . .	3,000.00	
Elmer J. Bliss . . . . .	50.00	
William M. Bullivant . . . . .	200.00	
Paul Butler . . . . .	100.00	
The Commonwealth Shoe and Leather Company . . . . .	50.00	
Howard Coonley . . . . .	250.00	
Lewis A. Crossett . . . . .	50.00	
Mrs. Ernest B. Dane . . . . .	250.00	
Frederic C. Dumaine . . . . .	100.00	
Charles A. Eaton Company . . . .	50.00	
Arthur F. Estabrook . . . . .	100.00	
Estabrook and Company . . . . .	200.00	
Charles F. Fairbanks . . . . .	100.00	
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Amounts carried forward, . . .	\$5,250.00	\$36,387.38

Amounts brought forward, . . . \$5,250.00 \$36,387.38

Graduate School of Business Administration (*continued*):

Guaranteed Deficit Fund (*continued*):

Fred F. Field . . . . .	50.00	
Thomas B. Fitzpatrick . . . . .	250.00	
Edwin Farnham Greene . . . . .	100.00	
Ralph P. Hazzard Company . . . . .	50.00	
Robert F. Herrick . . . . .	100.00	
George E. Keith Company . . . . .	50.00	
John S. Lawrence . . . . .	500.00	
Herbert W. Mason . . . . .	100.00	
M. A. Packard Company . . . . .	50.00	
Thomas G. Plant Company . . . . .	50.00	
Fred B. Rice . . . . .	50.00	
Arch Wilkinson Shaw . . . . .	1,000.00	
Winfield L. Shaw . . . . .	75.00	
Howard C. Smith . . . . .	100.00	
Galen L. Stone . . . . .	3,000.00	
Henry O. Underwood . . . . .	250.00	
Theodore N. Vail . . . . .	3,000.00	
Stuart W. Webb . . . . .	100.00	
Stephen M. Weld . . . . .	100.00	
Orrin G. Wood . . . . .	250.00	14,475.00

Lecture Fund:

Carl P. Dennett . . . . .	\$25.00	
Charles H. Jones . . . . .	75.00	100.00

Library of the Graduate School of Business Administration:

William Endicott	} for books on	\$100.00	
George B. Leighton		100.00	
Paul E. Fitzpatrick, for books on			
Marketing . . . . .		150.00	
Frederick L. Olmsted	}	100.00	
John C. Olmsted			
Joseph E. Sterrett . . . . .		100.00	550.00

Loan Fund:

Walter H. Cottingham . . . . .	\$100.00	
George L. Graham . . . . .	25.00	
William P. Libby . . . . .	25.00	150.00

Course in Printing:

J. Pierpont Morgan . . . . .	100.00
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Prises:

George O. May . . . . .	150.00
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Amount carried forward, . . . \$51,912.38

Amount brought forward, . . .		\$51,912.38
Bussey Institution — Graduate School of Applied Biology:		
Salaries:		
Anonymous . . . . .		150.00
Scholarships:		
In memory of his mother, Anna C. Ames:		
Oakes Ames . . . . .		425.00
College:		
Department of Botany:		
Mrs. Ernest B. Dane . . . . .		1,200.00
Department of the Classics:		
Classical Library:		
Department of the Classics . . . . .		100.00
Department of Economics:		
Present use:		
I. Tucker Burr . . . . .	\$100.00	
Charles W. Eliot . . . . .	25.00	
Edgar C. Felton . . . . .	100.00	
Camillus G. Kidder . . . . .	10.00	
John Wells Morse . . . . .	50.00	285.00
Research:		
Thomas W. Lamont . . . . .	\$600.00	
Ogden L. Mills . . . . .	1,500.00	
Eugene V. R. Thayer . . . . .	1,500.00	
William B. Thompson . . . . .	600.00	4,200.00
Division of Education:		
Library of the Division of Education:		
Charles W. Hubbard . . . . .	\$600.00	
Alfred Johnson . . . . .	150.00	
Robert Saltonstall . . . . .	250.00	
James J. Storrow . . . . .	500.00	1,500.00
Education 9:		
Frederick P. Fish . . . . .		1,000.00
Services and wages:		
James J. Storrow . . . . .		300.00
Amount carried forward, . . .		\$61,072.38

Amount brought forward, . . . \$61,072.38

College (*continued*):

Division of Education (*continued*):

Bureau of Vocational Guidance:

W. Murray Crane . . . . .	\$100.00	
Arthur F. Estabrook . . . . .	100.00	
A. Lincoln Filene . . . . .	2,250.00	
Edward A. Filene . . . . .	250.00	
Charles H. Jones . . . . .	25.00	
Augustus P. Loring and Mrs. Loring . . . . .	75.00	
The Thomas G. Plant Company	150.00	
Pauline A. Shaw (Mrs. Quincy A. Shaw), Estate of . . . .	5,000.00	
George F. Willett . . . . .	500.00	8,450.00

For the investigation of industrial opportunities for the physically handicapped:

Anonymous . . . . .	\$10.00	
Bay State Milling Company . .	25.00	
Boott Mills . . . . .	50.00	
Brighton Mills . . . . .	50.00	
The Carter's Ink Company . .	10.00	
Central Oil and Gas Stove Com- pany . . . . .	100.00	
The George Close Company . .	50.00	
W. Murray Crane . . . . .	100.00	
Richard H. Dana . . . . .	10.00	
George A. Draper . . . . .	250.00	
Thomas B. Fitzpatrick . . . .	50.00	
David B. Gamble . . . . .	50.00	
William A. Gaston . . . . .	50.00	
Griswoldville Manufacturing Company . . . . .	5.00	
Hilliard and Merrill, Incorpo- rated . . . . .	15.00	
Jordan Marsh Company . . . .	100.00	
Lawrenceburg Roller Mills Com- pany . . . . .	25.00	
Augustus P. Loring . . . . .	50.00	
United Drug Company . . . . .	100.00	
George Wigglesworth . . . . .	100.00	
George F. Willett . . . . .	200.00	
S. A. Woods Machine Company	50.00	1,450.00

Amount carried forward, . . . \$70,972.38

Amount brought forward, . . .		\$70,972.38
College ( <i>continued</i> ):		
Division of Education ( <i>continued</i> ):		
Bureau of Vocational Guidance ( <i>continued</i> ):		
Employment Management Course:		
Detroit Steel Products Company	\$55.00	
E. I. du Pont de Nemours Company	55.00	
Emerson Company . . . . .	75.00	
Hood Rubber Company . . .	90.00	
International Cotton Mills . .	55.00	
Liquid Carbonic Company . .	55.00	
Ludlow Manufacturing Associates	55.00	
Frank Muhlhauser . . . . .	200.00	
Pratt and Whitney Company .	55.00	
United States Shipping Board, Emergency Fleet Corporation	480.00	1,175.00
Division of The Fine Arts:		
Prizes:		
Henry S. Bowers . . . . .		75.00
To increase the income of "The Louise E. Bettens Fund":		
Edward D. Bettens . . . . .		300.00
Department of Geology:		
Economic Geology:		
Albert C. Burrage . . . . .	\$500.00	
William E. C. Eustis . . . . .	500.00	
Henry L. Smyth . . . . .	250.00	1,250.00
Department of Government:		
Special expenses:		
William Bennett Munro . . . . .		25.00
Bureau of Municipal Research:		
Clarke Thomson . . . . .	\$1,250.00	
Frank Graham Thomson . . . . .	1,250.00	2,500.00
Division of Modern Languages:		
Harvard Studies in Comparative Literature:		
William H. Schofield . . . . .		1,000.00
Amount carried forward, . . .		\$77,297.38

Amount brought forward, . . . \$77,297.38

College (*continued*):

## Division of Music:

## Present use:

Richard Aldrich . . . . .	\$15.00	
Cornelius N. Bliss, Jr. . . . .	50.00	
W. Kirkpatrick Brice . . . . .	125.00	
Tracy Dows . . . . .	50.00	
Carroll Dunham . . . . .	10.00	
Otto H. Kahn . . . . .	50.00	
Horatio A. Lamb . . . . .	100.00	
Howard Lilienthal . . . . .	10.00	
Mrs. Morris Loeb . . . . .	50.00	
Arthur N. McGeoch, Estate of . .	50.00	
Mrs. John Markoe . . . . .	25.00	
Dave H. Morris . . . . .	20.00	
Elliott H. Pendleton . . . . .	250.00	
Mrs. Philip L. Spalding . . . . .	50.00	
Miss Anne Thomson . . . . .	100.00	
Felix M. Warburg . . . . .	50.00	
Paul M. Warburg . . . . .	50.00	
George Wigglesworth . . . . .	50.00	
Owen Wister . . . . .	25.00	1,130.00

Towards meeting the expense of concerts  
given for members of the Radio School:

Mrs. Charles F. Batchelder . . . .	\$10.00	
Mrs. Arthur Astor Carey . . . . .	10.00	
Mrs. William G. Farlow . . . . .	10.00	
Mrs. Byron S. Hurlbut . . . . .	10.00	
Mrs. James R. Jewett . . . . .	10.00	
F. Lowell Kennedy . . . . .	5.00	
Mrs. Roger B. Merriman . . . . .	10.00	
Mrs. Edward C. Moore . . . . .	10.00	
Mrs. Nathaniel C. Nash . . . . .	10.00	
Charles Peabody . . . . .	10.00	
Denman W. Ross . . . . .	10.00	
Mrs. Philip L. Spalding . . . . .	10.00	115.00

## Division of Physics:

To be added to the income of the T. Jefferson  
Coolidge Fund for Research in Physics:

Anonymous . . . . . 3,550.00

Amount carried forward, . . . \$82,092.38

Amount brought forward, . . .		\$82,092.38
College ( <i>continued</i> ):		
Fellowships:		
South End House:		
South End House Association . . .		185.00
Prizes:		
Jeremy Belknap:		
Philippe B. Marcou . . . . .		50.00
Harvard Club of North China . . . . .		100.00
"Susan Anthony Potter Prizes":		
Mrs. Murray Anthony Potter . . .		225.00
Salaries:		
Anonymous . . . . .	\$100.00	
Anonymous . . . . .	2,333.35	
Anonymous . . . . .	650.00	
Bronson M. Cutting . . . . .	300.00	
David A. Ellis . . . . .	100.00	
A. Lincoln Filene . . . . .	250.00	
Frederick P. Fish . . . . .	250.00	
Mrs. Ralph Emerson Forbes . . .	100.00	
Waldo E. Forbes . . . . .	25.00	
Mrs. William Hooper . . . . .	1,000.00	
Charles W. Hubbard . . . . .	1,000.00	
Charles C. Jackson . . . . .	100.00	
Joseph Lee . . . . .	7,700.00	
George D. Markman . . . . .	50.00	
Roger B. Merriman . . . . .	70.00	
John T. Morse, Jr. . . . .	300.00	
Mrs. John W. Riddle . . . . .	1,000.00	
Robert W. Sayles . . . . .	200.00	
Lawrence E. Sexton . . . . .	100.00	
Mrs. Edward C. Streeter . . . . .	1,000.00	
James J. Storrow . . . . .	1,000.00	
Felix M. Warburg . . . . .	3,300.00	
Louis Ziegel . . . . .	100.00	21,028.35
Scholarships:		
Julian Henry Reinherz:		
Mrs. Etta Barite Reinherz . . . .		300.00
Ricardo Prize Scholarship:		
Anonymous . . . . .		350.00
Charles Sumner:		
Charles Sumner Bird . . . . .		200.00
Amount carried forward, . . .		\$104,530.73

Amount brought forward, . . . \$104,530.73

College (*continued*):Scholarships (*continued*):

## Harvard Clubs Scholarships:

Boston . . . . .	1,200.00
Buffalo . . . . .	200.00
Chicago . . . . .	1,050.00
Cincinnati . . . . .	750.00
Cleveland . . . . .	750.00
Connecticut . . . . .	200.00
Fall River . . . . .	250.00
Hawaii . . . . .	200.00
Long Island . . . . .	375.00
Louisiana . . . . .	200.00
Lowell . . . . .	400.00
Lynn . . . . .	100.00
Maryland . . . . .	500.00
Milton . . . . .	500.00
Minnesota . . . . .	300.00
Newburyport . . . . .	60.00
New Jersey . . . . .	250.00
Western Pennsylvania . . . . .	350.00
Rochester . . . . .	200.00
San Francisco . . . . .	350.00
Taunton . . . . .	200.00
Worcester . . . . .	200.00

## Scholarship and Beneficiary Money Returned:

William Stetson Merrill . . . . .	98.32
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## College Expenses:

Franklin W. Moulton . . . . .	25.00
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## College Yard:

## Tree Fund:

Richard T. Fisher . . . . .	45.00
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## To be added to the income of the Teachers' Endowment Fund:

Edwin H. Abbot . . . . .	400.00
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## Undergraduate Instruction:

Henry L. Shattuck . . . . .	50.00
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Amount carried forward, . . . \$113,734.05

Amount brought forward, . . .		\$113,734.05
College ( <i>continued</i> ):		
Unrestricted:		
Anonymous . . . . .	\$200.00	
Anonymous . . . . .	100.00	300.00
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Dental School:		
Current Expenses:		
Charles A. Brackett . . . . .	\$10.00	
Forrest G. Eddy . . . . .	10.00	
Nathan A. Estes . . . . .	50.00	
Ubert C. Russell . . . . .	10.00	80.00
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Toward defraying the expenses of the Dental Infirmary in caring for the teeth of soldiers, sailors and recruits:		
Mrs. Edwin F. Atkins . . . . .	\$50.00	
Lyman F. Bigelow . . . . .	25.00	
Mrs. Charles H. Joy . . . . .	10.00	
Miss Elsie Pierce . . . . .	15.00	
Ubert C. Russell . . . . .	5.00	
William Simes and Mrs. Simes . .	50.00	
Miss Mabel Wilbur . . . . .	50.00	205.00
<hr/>		
Divinity School:		
Salaries:		
Horace S. Sears . . . . .		1,000.00
The William Hayes Fogg Art Museum:		
To be added to the income of the William Hayes Fogg Fund:		
Anonymous . . . . .	\$125.00	
Anonymous . . . . .	50.00	
Anonymous . . . . .	500.00	
J. Templeman Coolidge . . . . .	100.00	
Edward W. Emerson . . . . .	20.00	
Members of the Division of The Fine Arts . . . . .	15.00	
Charles L. Freer . . . . .	250.00	
Joseph C. Hoppin . . . . .	100.00	
Denman W. Ross . . . . .	100.00	
Paul J. Sachs . . . . .	100.00	
Felix M. Warburg . . . . .	1,100.00	
Hervey E. Wetsel . . . . .	100.00	2,560.00
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Amount carried forward, . . .		\$117,879.05

Amount brought forward, . . .	\$117,879.05
The William Hayes Fogg Art Museum ( <i>continued</i> ):	
" Gift of Mrs. Samuel Sachs ":	
Mrs. Samuel Sachs . . . . .	2,500.00
"The Society of Friends of the Fogg Art Museum " . . . . .	2,487.00
Copley Amory	
Mrs. Copley Amory	
Anonymous	
William Sumner Appleton	
Mrs. Harrison O. Apthorp	
Mrs. Edward W. Atkinson	
Mrs. John W. Bartol	
Boylston A. Beal	
Gordon Knox Bell	
Bernhard Berenson	
George Blumenthal	
Henry S. Bowers	
Robert Pendleton Bowler	
W. Franklin Brush	
Miss Ellen T. Bullard	
Miss Katherine E. Bullard	
Heman Merrick Burr	
Winthrop Burr	
Philip Cabot	
Arthur A. Carey	
Charles T. Carruth	
Waddill Catchings	
Percy H. Clark	
Miss Eleanor Clarke	
Harold J. Coolidge	
J. Randolph Coolidge, Jr.	
Miss Hester Cunningham	
Horatio G. Curtis	
Harold W. Dana	
Edwin S. Dodge	
Mrs. Ludwig Dreyfuss	
Charles B. Eddy	
Richard Ederheimer	
Harold L. Ehrich	
Walter L. Ehrich	
William Emerson and Mrs. Emerson	
Martin Erdmann	
Albert R. Erakine	
Miss Louise Fitz	
Edward W. Forbes	
Amount carried forward, . . .	\$122,866.05

Amount brought forward, . . . \$122,866.05

The William Hayes Fogg Art Museum (*continued*):

"The Society of Friends of the Fogg Art Museum" (*continued*):

Mrs. Waldo E. Forbes  
 Charles L. Freer  
 Lee M. Friedman  
 G. Peabody Gardner, Jr.  
 Henry Goldman  
 Julius Goldman  
 Charles C. Goodrich  
 Arthur F. Gotthold  
 Morris Gray, Jr.  
 Thomas S. Hathaway  
 Joseph C. Hoppin  
 Alfred Johnson  
 François Kleinberger  
 Thomas W. Lamont  
 B. Meredith Langstaff  
 Arthur Lehman  
 Herbert H. Lehman  
 Philip Lehman  
 Robert Lehman  
 Mrs. Louis Leviser  
 Charles J. Liebmann  
 Philip M. Lydig  
 George H. Mifflin, Jr.  
 Edwin V. Morgan  
 J. Pierpont Morgan  
 John Lord O'Brian  
 Bradley W. Palmer  
 Potter Palmer, Jr.  
 John C. Phillips  
 Gustav Pollak  
 A. Kingsley Porter  
 Mrs. Orville W. Powers  
 Joseph M. Proskauer  
 Eben Richards  
 Mrs. John W. Riddle  
 Julius Rosenwald  
 Arthur Sachs  
 Barney Sachs  
 Miss Ella Sachs  
 Harry Sachs  
 Paul J. Sachs  
 Walter E. Sachs

Amount carried forward, . . . \$122,866.05

Amount brought forward, . . .

\$122,866.05

The William Hayes Fogg Art Museum (*continued*):"The Society of Friends of the Fogg Art Museum" (*continued*):

Jacob H. Schiff  
 Mortimer L. Schiff  
 Albert W. Scholle  
 Donald Scott  
 Lawrence E. Sexton  
 Frederick Cheever Shattuck  
 Thomas W. Slocum  
 Frank Bulkeley Smith  
 Sydney B. Snow  
 Eliot Spalding  
 Emil M. Sperling  
 James A. Stillman  
 Herbert N. Straus  
 John H. Sturgis  
 Horace M. Swope  
 Fritz B. Talbot  
 J. Collins Warren  
 Frederic C. Weld  
 Hervey E. Wetsel  
 Richard Wheatland  
 Alexander M. White  
 James Platt White  
 Grenville L. Winthrop  
 Clement B. Wood

Gray Herbarium:

Present use:

Rodolphe L. Agassis . . . . .	\$10.00
Mrs. James Barr Ames . . . . .	10.00
Anonymous . . . . .	25.00
Anonymous . . . . .	25.00
Edwin F. Atkins . . . . .	10.00
Walter C. Baylies . . . . .	10.00
Thomas P. Beal . . . . .	10.00
William Sturgis Bigelow . . . . .	10.00
Mrs. Francis Blake . . . . .	5.00
Edward M. Brewer . . . . .	15.00
William Brewster . . . . .	10.00
Allston Burr . . . . .	10.00
"E. S. C." . . . . .	25.00
"F. H. C." . . . . .	5.00
Mrs. James B. Case . . . . .	10.00

Amounts carried forward, . . .

\$190.00

\$122,866.05

Amounts brought forward, . . . \$190.00 \$122,866.05

Gray Herbarium (*continued*):

Present use (*continued*):

Miss Louise H. Coburn . . . . .	10.00
Alexander Cochrane . . . . .	20.00
Mrs. James M. Codman . . . . .	10.00
Mrs. Frank A. Day . . . . .	10.00
Walter Deane . . . . .	10.00
Arthur F. Estabrook . . . . .	100.00
Dudley B. Fay . . . . .	10.00
Francis A. Foster . . . . .	20.00
Mrs. Francis C. Foster . . . . .	10.00
Robert H. Gardiner . . . . .	10.00
George A. Goddard . . . . .	10.00
Miss Emily Gray . . . . .	10.00
Mrs. Henry S. Grew . . . . .	10.00
Mrs. Augustus Hemenway . . . . .	10.00
Miss Clara Hemenway . . . . .	10.00
Joseph P. B. Henshaw . . . . .	10.00
Henry Hornblower . . . . .	10.00
Clement S. Houghton . . . . .	10.00
Miss Elizabeth G. Houghton . . . . .	10.00
Henry S. Howe . . . . .	10.00
Henry S. Hunnewell . . . . .	25.00
Walter Hunnewell . . . . .	10.00
Charles W. Hubbard . . . . .	10.00
Miss Anna P. Jackson . . . . .	10.00
Edward C. Johnson . . . . .	10.00
Charles A. Kidder . . . . .	10.00
Nathaniel T. Kidder . . . . .	25.00
David P. Kimball . . . . .	25.00
Mrs. David P. Kimball . . . . .	25.00
Miss Lulu S. Kimball . . . . .	10.00
Mrs. Harriet M. Laughlin . . . . .	10.00
Joseph R. Leeson . . . . .	100.00
Mrs. George Linder . . . . .	20.00
Miss Louisa P. Loring . . . . .	10.00
William Caleb Loring . . . . .	10.00
Mrs. Thornton K. Lothrop . . . . .	10.00
Miss Ellen F. Mason . . . . .	10.00
Miss Fanny P. Mason . . . . .	10.00
Mrs. Otis Norcross . . . . .	10.00
Mrs. John C. Phillips . . . . .	10.00
Mrs. Dudley L. Pickman . . . . .	10.00
David Pingree . . . . .	20.00
Miss Elizabeth C. Putnam . . . . .	5.00

Amounts carried forward, . . . \$895.00 \$122,866.05

Amounts brought forward, . . .	\$895.00	\$122,866.05
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**Gray Herbarium (continued):****Present use (continued):**

Mrs. George Putnam . . . . .	10.00	
George E. Richards . . . . .	10.00	
William L. Richardson . . . . .	25.00	
Denman W. Ross . . . . .	10.00	
Mrs. M. Denman Ross . . . . .	10.00	
Mrs. Waldo O. Ross . . . . .	10.00	
Mrs. Robert S. Russell . . . . .	50.00	
Mrs. Knyvet W. Sears . . . . .	10.00	
Mrs. J. Montgomery Sears . . . . .	10.00	
Mrs. G. Howland Shaw . . . . .	10.00	
Nathaniel H. Stone . . . . .	10.00	
John E. Thayer . . . . .	100.00	
Charles C. Walker . . . . .	10.00	
Miss Cornelia Warren . . . . .	10.00	
Frank G. Webster . . . . .	20.00	
Stephen M. Weld . . . . .	10.00	
George Wigglesworth . . . . .	10.00	
Miss Adelia C. Williams . . . . .	25.00	
Emile F. Williams . . . . .	25.00	
John D. Williams . . . . .	20.00	1,290.00

**Law School:****Toward meeting the deficit in the Law School:**

Frank Bergen . . . . .	100.00
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**For the purchase of portraits of lawyers and judges:**

Anonymous . . . . .	225.00
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**Library:****Purchase of books for the College Library:**

George C. Beals, for duplicate books	
for English 33 . . . . .	\$50.00
Harold J. Coolidge, for books on China	50.00
Julian L. Coolidge . . . . .	35.12
William Endicott . . . . .	2,500.00
Department of English, for books relating to English literature . .	50.00
Department of English { for modern	62.50
Division of Modern { literature }	
Languages	62.50
Department of Government . . . .	100.00
Harvard Association of Chemists .	15.73

Amounts carried forward, . . .	\$2,925.85	\$124,481.05
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## GIFTS FOR IMMEDIATE USE

Amounts brought forward, . . . \$2,925.85 \$124,481.05

Library (*continued*):

Purchase of books for the College Library  
(*continued*):

George Lyman Kittredge . . . . .	2.54	
Mrs. Luther S. Livingston . . . . .	206.20	
James Loeb, for Labor books and periodicals . . . . .	100.00	
Frederick Adams Woods, for British family histories . . . . .	150.00	3,384.59

## Special expenses:

J. Pierpont Morgan . . . . .	2,500.00
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## Charles Elliott Perkins Memorial:

Mrs. William Hooper . . . . .	1,000.00
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## Binding books:

Mrs. Frederick L. Gay . . . . .	467.60
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## Medical School:

## Department of Anatomy:

Miss Sarah F. Bremer . . . . .	500.00
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## Department of Bacteriology:

" Gift of A. B. C." . . . . .	100.00
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## Department of Neuropathology:

Miss Katherine E. Bullard . . . . .	500.00
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## Department of Pharmacology:

William Endicott . . . . .	2,500.00
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## Department of Preventive Medicine and Hygiene:

National Canners Association . . . . .	20,000.00
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## Division of Industrial Hygiene:

American Telephone and Telegraph Company . . . . .	\$1,000.00
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Amoskeag Manufacturing Company	5,000.00
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## Anonymous:

Securities valued at . . . . .	51,000.00
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Walter Baker and Company, Limited	200.00
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Bliss, Fabyan and Company . . . . .	1,000.00
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Boott Mills . . . . .	1,250.00
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Amounts carried forward, . . .	\$59,450.00	\$155,433.24
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Amounts brought forward, . . . \$59,450.00 \$155,433.24

**Medical School (*continued*):**

**Department of Preventive Medicine and Hygiene  
(*continued*):**

**Division of Industrial Hygiene (*continued*):**

W. Murray Crane . . . . .	1,000.00	
Crompton and Knowles Loom Works . . . . .	4,000.00	
Henry B. Endicott . . . . .	500.00	
Everett Mills . . . . .	1,000.00	
The Fisk Rubber Company . . . . .	500.00	
Harmony Mills . . . . .	500.00	
Hill Manufacturing Company . . . . .	50.00	
Hood Rubber Company . . . . .	1,000.00	
Charles C. Jackson . . . . .	100.00	
The Lawrence Manufacturing Company . . . . .	500.00	
Lewiston Bleachery and Dye Works . . . . .	50.00	
J. Franklin McElwain . . . . .	100.00	
Massachusetts Cotton Mills . . . . .	2,500.00	
Massachusetts Gas Companies . . . . .	200.00	
Merrimack Manufacturing Company . . . . .	2,500.00	
Naumkeag Steam Cotton Company . . . . .	500.00	
New England Manufacturing Company . . . . .	500.00	
Plymouth Cordage Company . . . . .	2,500.00	
Saco-Lowell Shops . . . . .	500.00	
Thomas W. Slocum . . . . .	1,000.00	
Galen L. Stone . . . . .	1,000.00	
A. J. Tower Company . . . . .	1,000.00	
United Drug Company . . . . .	500.00	
George R. White . . . . .	1,000.00	
Arthur F. Whiting . . . . .	200.00	
George F. Willett . . . . .	500.00	
York Manufacturing Company . . . . .	1,000.00	84,150.00

**Department of Tropical Medicine:**

Anonymous . . . . .	\$7,500.00	
Godfrey M. Hyams . . . . .	500.00	8,000.00

**Flag-staff on Building "A":**

Henry Lyman . . . . .	\$1.00	
J. Collins Warren . . . . .	62.89	63.89

**Library of the Medical School:**

Alpha Omega Alpha Society . . . . .		8.00
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Amount carried forward, . . . . .		\$247,655.13
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Amount brought forward, . . .		\$247,655.13
<b>Medical School (<i>continued</i>):</b>		
Instruction in Military Medicine:		
Frederick Cheever Shattuck:		
Securities Valued at . . . . .		1,000.00
For a prize for the best work in photo-chemistry or its application to biology, performed at the Medical School during the year 1917-1918:		
"A member of the Class of 1905 "		100.00
Salaries:		
Anonymous . . . . .	\$1,500.00	
A member of the Class of 1905 . . .	2,500.00	
Harvard Medical Alumni Association	2,166.68	6,166.68
Scholarships:		
"The James Ewing Mears, M.D. Scholarship in Medicine ":		
J. Ewing Mears . . . . .		225.00
Unrestricted:		
The Aesculapian Club . . . . .		200.00
The Cancer Commission of Harvard University:		
New Laboratory Fund:		
A friend . . . . .		10,000.00
"toward the purchase of some physical apparatus for the biological work of Dr. Bovie.":		
Anonymous . . . . .		50.00
Salaries:		
Anonymous . . . . .	\$165.00	
Miss Emily Dutton Proctor . . . .	1,000.00	
Redfield Proctor . . . . .	1,000.00	2,165.00
To be expended under the direction of the social service worker:		
Franklin W. Moulton . . . . .		100.00
Amount carried forward, . . .		\$267,661.81

Amount brought forward, . . . \$267,661.81

Medical School (*continued*):

Collis P. Huntington Memorial Hospital:

Current expenses:

George R. Agassiz . . . . .	\$250.00
Mrs. Leonard D. Ahl . . . . .	50.00
Miss Martha A. Alford . . . . .	100.00
F. Lothrop Ames . . . . .	100.00
Anonymous . . . . .	25.00
Anonymous . . . . .	200.00
Edwin F. Atkins . . . . .	50.00
Charles F. Ayer . . . . .	25.00
Nelson S. Bartlett . . . . .	25.00
Mrs. Walter C. Baylies . . . . .	200.00
Mrs. Junius Beebe . . . . .	25.00
William Sturgis Bigelow . . . . .	100.00
George Nixon Black . . . . .	100.00
Mrs. Arthur W. Blake . . . . .	20.00
Mrs. Francis Blake . . . . .	20.00
Mrs. Edward D. Brandegee . . . . .	100.00
Miss Sarah F. Bremer . . . . .	50.00
Miss Fannie R. Brewer . . . . .	25.00
Shepherd Brooks . . . . .	50.00
Miss Katherine E. Bullard . . . . .	100.00
Mrs. John A. Burnham . . . . .	10.00
I. Tucker Burr . . . . .	25.00
"E. S. C." . . . . .	100.00
Mrs. Arthur Tracy Cabot . . . . .	50.00
Arthur Astor Carey . . . . .	5.00
Miss Emma F. Cary . . . . .	25.00
Miss Georgina S. Cary . . . . .	25.00
P. Coggeshall Chase . . . . .	25.00
Mrs. Theodore Chase . . . . .	25.00
Mrs. Costello C. Converse . . . . .	200.00
Charles E. Cotting . . . . .	100.00
W. Murray Crane . . . . .	200.00
Mrs. Francis B. Crowinshield . . . . .	10.00
John S. Curtis . . . . .	50.00
Ernest B. Dane . . . . .	25.00
Phillip Y. DeNormandie . . . . .	25.00
Miss Hannah M. Edwards . . . . .	50.00
John W. Farlow . . . . .	25.00
Miss Fannie M. Faulkner . . . . .	50.00
Miss Sarah B. Fay . . . . .	25.00
Frederick P. Fish . . . . .	50.00
Mrs. W. Scott Fits . . . . .	50.00

Amounts carried forward, . . . \$2,765.00 \$267,661.81

Amounts brought forward, . . . \$2,765.00 \$267,661.81

Medical School (*continued*):

Collis P. Huntington Memorial Hospital (*continued*):

Current expenses (*continued*):

Henry C. Frick . . . . .	250.00
A friend . . . . .	100.00
Mrs. Louis A. Frothingham . . . . .	200.00
Miss Harriet Gray . . . . .	50.00
Mrs. Henry S. Grew . . . . .	50.00
Miss Ellen R. Hathaway . . . . .	100.00
Horatio Hathaway, Jr. . . . .	25.00
Mrs. M. Graeme Haughton . . . . .	100.00
Augustus Hemenway . . . . .	100.00
Robert F. Herrick . . . . .	50.00
Franklin W. Hobbs . . . . .	25.00
The Misses Holt . . . . .	50.00
William Hooper . . . . .	50.00
Henry Hornblower and Mrs. Hornblower . . . . .	100.00
Miss Elizabeth G. Houghton . . . . .	25.00
Mrs. Charles W. Hubbard . . . . .	50.00
The Humane Society of the Commonwealth of Massachusetts . . . . .	500.00
Henry S. Hunnewell . . . . .	100.00
Walter Hunnewell . . . . .	100.00
Mrs. Henry E. Huntington . . . . .	2,500.00
Henry Jackson . . . . .	20.00
Ellerton James . . . . .	20.00
Edward C. Johnson . . . . .	20.00
Mrs. Benjamin M. Jones . . . . .	20.00
A. Paul Keith . . . . .	25.00
David P. Kimball . . . . .	50.00
The Misses Kimball . . . . .	25.00
Mrs. Henry P. King . . . . .	200.00
Thomas W. Lamont . . . . .	250.00
Mrs. Gardiner M. Lane . . . . .	50.00
Lawrence Model Lodging Houses . . . . .	500.00
Mrs. William Caleb Loring . . . . .	10.00
James W. Maguire . . . . .	200.00
Edward Mallinckrodt, Jr. . . . .	100.00
Mrs. Charles E. Mason . . . . .	100.00
Miss Fanny P. Mason . . . . .	25.00
Miss Ida M. Mason . . . . .	50.00
Mrs. Daniel Merriman . . . . .	25.00
The Misses Morrill . . . . .	50.00

Amounts carried forward, . . . \$9,030.00 \$267,661.81

Amounts brought forward, . . \$9,030.00      \$267,661.81

**Medical School (*continued*):**

**Collis P. Huntington Memorial Hospital (*continued*):**

**Current expenses (*continued*):**

William H. O'Connell . . . . .	20.00
Mrs. Robert Treat Paine, 2d . . . . .	25.00
William A. Paine . . . . .	200.00
Miss Eleanor S. Parker . . . . .	25.00
John Parkinson . . . . .	50.00
Frank E. Peabody . . . . .	100.00
George A. Peabody . . . . .	500.00
James J. Phelan . . . . .	50.00
Wallace L. Pierce . . . . .	100.00
David Pingree . . . . .	200.00
Alexander S. Porter, Jr. . . . .	15.00
James M. Prendergast . . . . .	25.00
Harry L. Rice . . . . .	25.00
William L. Richardson . . . . .	100.00
Wallace F. Robinson . . . . .	25.00
Miss Emma Rodman . . . . .	25.00
Miss Annette P. Rogers . . . . .	15.00
Mrs. Jacob C. Rogers . . . . .	100.00
Mrs. Robert S. Russell . . . . .	25.00
John L. Saltonstall . . . . .	100.00
Robert Saltonstall . . . . .	50.00
Mrs. Francis W. Sargent . . . . .	25.00
Mrs. J. Montgomery Sears . . . . .	100.00
Mrs. Knyvet W. Sears . . . . .	100.00
Richard D. Sears . . . . .	100.00
Henry S. Shaw . . . . .	25.00
Mrs. Quincy A. Shaw . . . . .	100.00
Mrs. George S. Silsbee . . . . .	50.00
Francis P. Sprague . . . . .	100.00
Mrs. Seth E. Sprague . . . . .	10.00
Mrs. Robert H. Stevenson . . . . .	25.00
Galen L. Stone . . . . .	250.00
Nathaniel H. Stone . . . . .	100.00
Miss Abby M. Storer . . . . .	25.00
Miss Mary G. Storer . . . . .	25.00
Robert W. Storer . . . . .	25.00
Miss Alice P. Tapley . . . . .	100.00
Mrs. Ezra R. Thayer . . . . .	15.00
John E. Thayer . . . . .	250.00
Mrs. Nathaniel Thayer . . . . .	25.00
Mrs. Washington B. Thomas . . . . .	25.00
"The Eugene Tompkins Memorial" . . . . .	1,000.00

Amounts carried forward, . . \$13,280.00      \$267,661.81

Amounts brought forward, . . . \$13,280.00 \$267,661.81

Medical School (*continued*):

Collis P. Huntington Memorial Hospital (*continued*):

Current expenses (*continued*):

Charles H. Traiser . . . . .	25.00	
George F. Willett . . . . .	100.00	
Henry O. Underwood . . . . .	100.00	
Mrs. Alexander F. Wadsworth . .	25.00	
William B. Walker and Mrs. Walker	50.00	
Mrs. Bayard Warren . . . . .	100.00	
J. Collins Warren . . . . .	100.00	
Frank G. Webster and Mrs. Webster	100.00	
Welfare Fund, through Charles A. Dean, Trustee . . . . .	25.00	
William P. Wharton . . . . .	100.00	
George R. White . . . . .	500.00	
Edward F. Whitney . . . . .	100.00	
Frank Whitney . . . . .	25.00	
George Wigglesworth . . . . .	100.00	14,730.00

Laboratory Fund:

Robert K. Cassatt . . . . .	\$100.00	
Henry S. Howe . . . . .	100.00	
Charles C. Jackson . . . . .	100.00	
Eliot Wadsworth . . . . .	100.00	400.00

Observatory:

Draper Catalogue:

George R. Agassiz . . . . .	1,000.00
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Draper Memorial:

Mary Anna Palmer Draper (Mrs. Henry Draper), Estate of . . .	4,000.00
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Charles S. Hinchman Fellowship:

Mrs. Charles S. Hinchman . . . .	500.00
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Maria Mitchell Fellowship:

Charles S. Hinchman, Estate of . .	250.00
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Present use:

Edward C. Pickering . . . . .	250.00
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Amount carried forward, . . . \$288,791.81

Amount brought forward, . . .	\$288,791.81
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Observatory (*continued*):

## Publications:

Edward C. Pickering: Securities valued at . . . . .	1,880.00
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Peabody Museum of American Archaeology and  
Ethnology:

## Present use:

Clarence B. Moore . . . . .	\$500.00	
Charles Peabody . . . . .	85.93	585.93

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## Purchase of cases:

Augustus Hemenway . . . . .	\$79.60	
Elliot C. Lee . . . . .	100.00	
Charles Peabody . . . . .	100.00	
John C. Phillips . . . . .	100.00	379.60

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Toward meeting the cost of opening the  
Museum on Sunday afternoons:

Augustus Hemenway . . . . .	\$50.00	
Charles Peabody . . . . .	50.00	
Alfred M. Tozzer . . . . .	25.00	
Edward Wigglesworth . . . . .	25.00	150.00

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## Summer School:

## Salaries:

The Association for International Conciliation . . . . .	250.00
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## University:

## Directory Office Equipment:

Anonymous . . . . .	500.00
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## Retiring allowances:

The Carnegie Foundation for the Advancement of Teaching . . .	63,076.84
Amount carried forward, . . .	\$355,614.18

Amount brought forward, . . .		\$355,614.18
University Press:		
Publications:		
Anonymous, through Roscoe Pound		500.00
War Activities:		
Alumni Association Fund:		
Sundry subscriptions from alumni and friends of the University .		66,326.43
The American University Union in Europe:		
Edwin F. Atkins . . . . .	\$100.00	
Harry E. Clifford . . . . .	5.00	
Mrs. Edward Cunningham . . . .	500.00	
Sinclair Kennedy . . . . .	50.00	
Miss Mabel Lyman . . . . .	500.00	
Frederick Cheever Shattuck . . . .	100.00	1,255.00
Harvard Reserve Officers' Training Corps:		
Class of 1885 . . . . .	\$1,092.54	
Through Robert F. Herrick . . . .	6,362.57	7,455.11
Phototopography:		
Jesse Isidor Straus . . . . .		500.00
War Records:		
Balance of sundry subscriptions, through Charles Jackson . . . .		1,117.13
Total, . . . . .		\$432,767.85

# SCHEDULE 1

## SPECIAL INVESTMENTS

June 30, 1918

UNIVERSITY		Principal.	Net Income.
<b>J. Arthur Beebe,</b> Real Estate, Falmouth, . . . . .		\$32,000.00	\$146.96
<b>John W. Carter,</b> University Houses and Lands, . . . . .		12,500.00	1,026.90
<b>George B. Dorr,</b> University Houses and Lands, . . . . .		115,966.56	9,523.57
<b>George Draper,</b> University Houses and Lands, . . . . .		48,458.50	3,979.80
<b>Robert H. Eddy,</b> University Houses and Lands, . . . . .		56,787.00	4,663.75
<b>John Davis Williams French,</b> University Houses and Lands, . . . . .		5,322.09	437.45
<b>John C. Gray,</b> University Houses and Lands, . . . . .		25,000.00	2,053.39
<b>Walter Hastings,</b> Real Estate, Sacramento St., Cambridge, . . . .		20,000.00	1,139.44
<b>Henry L. Higginson,</b> University Houses and Lands, . . . . .		29,676.55	2,437.44
<b>Insurance and Guaranty,</b> Real Estate, Lucas St., Boston, . . . . .		4,000.00	.....
<b>Joseph Lee,</b> University Houses and Lands, . . . . .		10,000.00	821.59
<b>Francis E. Parker,</b> University Houses and Lands, . . . : . . . . .		113,817.44	9,347.08
<b>Henry L. Pierce (Residuary) (part),</b> Equipment at Memorial Hall, . . . . .		152,098.14	6,844.42
<b>Riverside,</b> 11 shares Harvard Riverside Associates, . . . . .		11,000.00	.....
<b>Henry Villard,</b> University Houses and Lands, . . . . .		50,000.00	4,106.36
<b>William F. Weld,</b> University Houses and Lands, . . . . .		100,000.00	8,212.35
<b>Caroline M. Barnard Bequest (part),</b> \$1,000 City Real Estate Trustees, . . . . .		800.00	50.00
7 shares United Zinc Co., preferred, . . . . .		70.00	.....
Amounts carried forward, . . . . .		\$787,496.28	\$54,790.50

## COLLEGE

	Principal.	Net Income.
Amounts brought forward, . . . . .	\$787,496.28	\$54,790.50
<b>Daniel A. Buckley (part),</b>		
Real Estate in Cambridge, Mass., . . . . .	65,558.47	.....
" " Deer Isle, Me., . . . . .	1.00	.....
<b>Victor Emanuel Chapman Memorial Fellowship,</b>		
\$5,000 American Tel. & Tel. Co. conv. 4½'s of 1933,	5,000.00	225.00
1,000 Baltimore & Ohio R.R. 3½'s of 1925, . . .	1,000.00	35.00
1,000 City of Cambridge Bridge Loan 4's of 1921,	1,000.00	40.00
1,000 Fitchburg R.R. 4's of 1925, . . . . .	1,000.00	40.00
2,000 Northern Pacific-Great Northern Rys. Joint 4's of 1921, . . . . .	2,000.00	80.00
<b>George Newhall Clark,</b>		
100 shares St. Joseph R'y, Light, Heat & Power Co., preferred, . . . . .	10,000.00	500.00
<b>Class of 1888 (part),</b>		
25 shares Hotel Realty Co., . . . . .	2,000.00	75.00
<b>Class of 1889 (part),</b>		
4 Shares Claverly Trust, . . . . .	2,000.00	.....
500 University Building Co. 2d 6's of 1929, . .	500.00	29.90
<b>Class of 1892,</b>		
\$100,000 U. S. of America 1st Liberty Loan 3½'s of 1947, . . . . .	100,000.00	3,500.00
<b>Class of 1893,</b>		
\$700 U. S. of America 1st Liberty Loan 3½'s of 1947, . . . . .	679.28	.....
24,800 U. S. of America 1st Liberty Loan 4's of 1947, . . . . .	23,979.63	.....
7,800 U. S. of America 2d Liberty Loan, 4's of 1942, . . . . .	7,401.84	.....
14,650 U. S. of America 3d Liberty Loan 4½'s of 1928, . . . . .	14,205.37	.....
1,000 Phoenix Mutual Life Insurance Co. Policy,	1,000.00	.....
<b>Edward W. Codman (part),</b>		
75 shares Pacific Mills, . . . . .	4,560.00	1,125.00
10 " Barristers Hall Trust, . . . . .	710.20	40.00
<b>Edward Erwin Coolidge,</b>		
200 shares U. S. Smelting, Ref. & Mining Co., pref'd,	9,000.00	700.00
<b>Alexis Irenée Du Pont Fund,</b>		
\$100,000 Anglo-French Ext. Loan 5's of 1920, . .	93,000.00	4,997.50
<b>Eliot Professorship (Jonathan Phillips's Gift),</b>		
\$10,000 City of Boston 3½'s of 1920, . . . . .	10,000.00	350.00
<b>William Everett Fund,</b>		
10 shares Chicago & Northwestern R. R., . . . .	930.00	.....
10 " General Electric Co., . . . . .	1,470.00	.....
10 " Great Northern R. R. pref'd, . . . . .	920.00	.....
18 " Pennsylvania, . . . . .	792.00	.....
Amounts carried forward, . . . . .	\$1,146,204.07	\$66,527.90

	Principal.	Net Income.
Amounts brought forward, . . . . .	\$1,146,204.07	\$66,527.90
<b>Edwin William Friend Memorial Fund,</b>		
\$500 United Light & Railways Co. 6's Gold Notes of 1920, . . . . .	500.00	30.00
<b>Harvard Endowment Fund (part),</b>		
\$1,000 U. S. of America 3½'s 1st Liberty Loan, .	1,000.00	17.50
20,000 U. S. of America 4's 2d Liberty Loan, . .	20,000.00	400.00
1,000 U. S. of America 4½'s 3d Liberty Loan, . .	1,000.00	.....
<b>Charles W. Hubbard Fund,</b>		
\$10,000 U. S. Steel Corp. S. F. 5's of 1923, . . .	10,000.00	250.00
<b>Professorship of Hygiene (part),</b>		
Policy of Mass. Hospital Life Insurance Co., . .	5,000.00	212.50
<b>George H. Leatherbee Lecture Fund,</b>		
\$5,000 Ames Plow Co., 1st M. 5's of 1932, . . . .	4,850.00	250.00
<b>Morris Loeb Bequest (part),</b>		
Mortgage Notes, . . . . .	152,000.00*	4,650.00
400 shares American Tel. & Tel. Co., . . . . .	48,105.04	3,200.00
200 " Amoskeag Manufacturing Co., preferred,	19,800.00	900.00
12 " Boston Real Estate Trust, . . . . .	18,320.00	540.00
500 " Congress Street Associates, . . . . .	48,750.00	1,812.50
200 " Edison Electric Illuminating Co. of Boston,	51,800.00	2,400.00
500 " Massachusetts Gas Co., preferred, . . .	47,500.00	2,000.00
500 " Trimountain Trust, . . . . .	50,000.00	2,250.00
250 " Western Real Estate Trust, . . . . .	33,750.00	1,750.00
400 " Western Union Telegraph Co., . . . . .	25,317.00	2,900.00
<b>Emily H. Moir Bequest (part),</b>		
4 shares Emily H. Moir Estate, Inc., . . . . .	1.00	.....
Real Estate in Brighton, . . . . .	32,000.00	574.64
<b>Charles Eliot Norton Fellowship,</b>		
\$15,000 Northern Pacific-Great Northern Joint 4's (C. B. & Q. collateral) of 1921, . . . . .	14,100.00	600.00
5,000 Louisville & Nashville Unified M. 4's of 1940,	5,000.00	200.00
<b>John Knowles Paine Fellowships in Music,</b>		
Mortgage Notes, . . . . .	28,000.00	1,204.17
<b>George Foster Peabody Scholarship,</b>		
\$6,000 Mexican Coal & Coke Co. 1st M., S. F. 5's of 1926, . . . . .	4,800.00	.....
<b>Stanley Bagg Pennook Scholarship,</b>		
100 shares Pennsylvania, . . . . .	5,000.00	298.00
<b>William Reed Scholarship,</b>		
\$1,000 New York Central & H. R. Gold 3½'s of 1927,	1,000.00	35.00
<b>Nelson Robinson Jr. Additional (part),</b>		
1,750 shares Gauley Coal Land Co., preferred, . .	175,000.00	.....
<b>Eliza O. and Mary P. Ropes (part),</b>		
100 shares Chicago, Milwaukee & St. Paul, . . .	13,071.88	200.00
100 " Northern Pacific, . . . . .	11,986.50	700.00
220 " Pennsylvania, . . . . .	12,888.50	660.00
Amounts carried forward, . . . . .	\$1,981,743.99	\$94,562.21

	Principal.	Net Income.
Amounts brought forward, . . . . .	\$1,981,748.99	\$94,562.21
<b>Josiah Royce Memorial Fund,</b>		
\$100 U. S. of America 2d Liberty Loan 4's of 1942,	100.00	2.00
200 U. S. of America 3d Liberty Loan 4½'s of 1928,	200.00	.....
<b>Dunlap Smith Scholarship,</b>		
\$5,000 Metropolitan West Side Elevated R. R. Ex- tension M. 4's of 1938, . . . . .	4,700.00	200.00
<b>Henry Baldwin Stone Memorial,</b>		
\$66,000 Mississippi River Power Co. 1st M. 5's of 1951, . . . . .	53,460.00	3,300.00
<b>Stoughton Scholarship (part),</b>		
Real Estate in Dorchester, . . . . .	1.00	.....
<b>Teachers' Endowment (part),</b>		
50 shares Broadway Realty Co., preferred, . . .	5,000.00	525.00
50,000 Wisconsin Central, Minneapolis Terminal Purchase Money M. 3½'s of 1950, . . . . .	50,000.00	1,750.00
10 shares Harvard Riverside Associates, . . . . .	10,000.00	.....
<b>Lee Wade II Prize Fund,</b>		
\$1,000 School District of the Borough of Olyphant 5's of 1943, . . . . .	1,000.00	50.00
<b>Samuel Ward's Gift (part),</b>		
Ward's (Bumkin) Island, Boston Harbor, . . . .	1.00	.....
<b>Gordon Wendell (part),</b>		
\$2,000 Chicago, Burl. & Quincy R. R. (Ill. Div.) 4's of 1949 . . . . .	2,000.00	80.00

## LIBRARY

<b>Anonymous Library Fund,</b>		
200 shares Washington Water Power Co., . . . .	25,000.00	800.00
<b>Edwin Swift Balch, Class of 1878 Fund,</b>		
\$3,000 U. S. of America 3d Liberty Loan 4½'s, . .	3,000.00	.....
2,000 U. S. of America 2d Liberty Loan 4's, . .	2,000.00	.....
<b>William R. Castle Fund,</b>		
\$1,000 Digamma Club 4½'s of 1926, . . . . .	900.00	45.00
<b>Peter P. F. Degrand Fund,</b>		
50 shares Trimountain Trust, . . . . .	4,500.00	224.00
<b>Francis Parkman Memorial (part),</b>		
\$5,000 Louisville & Jeffersonville Bridge 1st M. Gold 4's of 1945, . . . . .	4,500.00	200.00
<b>John Harvey Treat (part),</b>		
130 Shares Treat Hardware Supply Co., . . . . .	1,300.00	780.00
<b>Ichabod Tucker (part),</b>		
Policy of Mass. Hospital Life Insurance Co., . . .	5,000.00	212.50

## LAW SCHOOL

<b>James and Augusta Barnard Law Fund,</b>		
60 shares American Tel. & Tel. Co., . . . . .	7,230.76	480.00
17 " Boston & Albany R. R. Co., . . . . .	3,060.00	148.75
Amounts carried forward, . . . . .	\$2,164,696.75	\$103,359.46

	Principal.	Net Income.
Amounts brought forward, . . . .	\$2,164,696.75	\$108,359.46
<b>James and Augusta Barnard Law Fund</b>		
<i>(continued).</i>		
\$4,000 Kansas City Elevated R'y Gen. M. 4's of 1922,	2,800.00	.....
70 shares Massachusetts Electric Co., preferred, .	4,550.00	.....
15 " New England Investment & Security Co., preferred (sold during year), . . . . .	.....	30.00
15 " Worcester Consolidated Street Ry. Co., 1st preferred, . . . . .	1,850.00	37.50
<b>Law School Endowment,</b>		
50 U. S. of America 1st Liberty Loan 3½'s of 1947,	50.00	1.75
<b>Joshua Montgomery Sears, Jr. Memorial (part),</b>		
\$10,000 Minneapolis General Electric Gold M. 5's of 1934, . . . . .	10,000.00	500.00
10,000 New England R. R. Consol. M. 5's of 1945,	10,000.00	500.00

## MEDICAL SCHOOL

<b>Robert Charles Billings (part),</b>		
Real Estate, Wigglesworth St. & Power House, Villa St., Boston (part), . . . . .	100,000.00	5,000.00
<b>John B. and Buckminster Brown Endowment,</b>		
52 shares Pennsylvania R. R., . . . . .	5,200.00	156.00
<b>John White Browne Scholarship,</b>		
\$3,000 American Tel. & Tel. 4's of 1929, . . . . .	2,475.00	60.00
2,000 Commonwealth Edison Co. 5's of 1943, . .	1,840.00	50.00
3,000 Great Britain & Ireland 5½% Notes of 1919, .	2,857.50	82.50
5,000 Oregon Short Line R. R. 4's of 1929, . . .	4,200.00	100.00
4,000 Sierra & San Francisco Power Co. 5's of 1949,	3,000.00	100.00
1,000 Texas Power & Light Co. 5's of 1937, . . .	840.00	25.00
3,000 Wisconsin-Minnesota Light & Power Co. 5's of 1944, . . . . .	2,460.00	75.00
3 shares Massachusetts Gas Co's., preferred (sold during year), . . . . .	.....	6.00
<b>John C. Cutter Bequest,</b>		
\$6,250 Carthage Water Power Co., 1st M. 5% Notes,	1.00	.....
<b>Dr. Henry Isaiah Dorr Chair of Research and Teaching,</b>		
\$5,000 Boston Elevated Ry. 5's of 1942, . . . . .	5,000.00	250.00
10,000 Chicago, Burlington & Quincy R.R. 3½'s of 1949, . . . . .	10,000.00	350.00
5,000 Dominion of Canada 5's of 1937, . . . . .	5,000.00	.....
10,000 Illinois Central R.R. 3½'s of 1953, . . . .	10,000.00	350.00
5,000 Lake Shore & Michigan Southern R.R. 3½'s of 1997, . . . . .	5,000.00	175.00
5,000 Lake Shore & Michigan Southern R.R. 4's of 1981, . . . . .	5,000.00	.....
4,000 Lynn & Boston R. R. 5's of 1924, . . . .	4,000.00	200.00
Amounts carried forward, . . . .	\$2,360,320.25	\$111,408.21

	Principal.	Net Income.
Amounts brought forward, . . . .	\$2,360,320.25	\$111,408.21
<b>Dr. Henry Isaiah Dorr Chair of Research and Teaching (continued).</b>		
\$5,000 Michigan State Tel. Co. 5's of 1924, . . .	5,000.00	250.00
5,000 N. Y. C. & H. R. R. R. 3½'s of 1997, . . .	5,000.00	175.00
20,000 New York, New Haven & Hartford R. R. 4's of 1956, . . . . .	20,000.00	800.00
4,000 Oregon Short Line R. R. 4's of 1929, . . .	4,000.00	160.00
20,000 Pennsylvania R. R. 4½'s of 1965, . . . .	20,000.00	.....
2,000 Western Union Tel. Co. 4½'s of 1950, . .	2,000.00	90.00
<b>Calvin and Lucy Ellis (part),</b>		
\$40,000 Northern Pacific-Great Northern Joint 4's (C. B. & Q. collateral) of 1921, . . . . .	26,585.00	1,600.00
Real Estate, Wigglesworth St. and Power House, Villa St., Boston (part), . . . . .	349,052.32	19,088.45
<b>Flattery Research Fund,</b>		
100 shares Loews Theatrical Enterprises, . . . .	11,800.00	450.00
<b>M. Douglas Flattery Prize Fund,</b>		
750 shares Old Colony Woolen Mills Co., p'fd, .	7,500.00	.....
<b>George Haven Bequest (part),</b>		
12 shares Barristers Hall Trust, . . . . .	924.00	48.00
<b>Julia M. Moseley Fund,</b>		
\$15,000 Massachusetts 3½'s of 1939, . . . . .	13,950.00	525.00
10,000 Massachusetts 3½'s of 1939, . . . . .	9,300.00	350.00
<b>George C. Shattuck (1853),</b>		
\$25,000 Chicago, Milwaukee & St. Paul R. R. Conv. 4½'s of 1932, . . . . .	25,000.00	1,125.00
<b>Francois Skinner (part),</b>		
16 shares New England Investment & Securities, preferred (sold during year), . . . . .		32.00
16 shares Worcester Consolidated Street Ry., 1st preferred, . . . . .	640.64	40.00
<b>Morrill Wyman Medical Research Fund (part),</b>		
\$300 Colonial Club 5's of 1922, . . . . .	240.00	15.00
10 shares Delaware & Hudson Co., . . . . .	1,500.00	90.00
58 " Fitchburg R. R. Co., preferred, . . . .	4,176.00	290.00
36 " Illinois Central R. R. Co., . . . . .	3,888.00	270.00
22 " Maine Central R. R. Co., . . . . .	2,200.00	132.00
1 share Old Colony R. R. Co., . . . . .	133.00	7.00
16 shares Pennsylvania R. R. Co., . . . . .	928.00	48.00
<b>Division of Industrial Hygiene,</b>		
\$10,000 American Agricultural Chemical Co. 5's of 1924, . . . . .	10,000.00	.....
20,000 Illinois Steel Co. Deb. 4½'s of 1940, . . .	20,000.00	.....
100 shares W. H. McIlwain Co., 1st preferred, .	9,000.00	.....
100 " Union Pacific R. R., . . . . .	12,000.00	.....
Amounts carried forward, . . . .	\$2,925,187.21	\$136,993.66

	Principal.	Net Income.
Amounts brought forward, . . . . .	\$3,925,187.21	\$186,998.66

## MUSEUM OF COMPARATIVE ZOOLOGY

## Alexander Agassiz Bequest, Clause XI,

Real Estate in Cambridge, . . . . .	40,000.00	.....
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## OBSERVATORY

## Advancement of Astronomical Science (1902),

15 shares Calumet & Hecla Mining Co., . . . . .	9,000.00	900.00
8 " Tamarack Mining Co. (sold during year), . . . . .	.....	180.00

PEABODY MUSEUM OF AMERICAN ARCHAEOLOGY  
AND ETHNOLOGY

Peabody Building (part),	} \$54,000 Kansas & Missouri R. R. 1st M. 5's of 1922,	11,512.72	622.32
Peabody Collection (part),		19,218.64	1,038.84
Peabody Professor (part),		19,218.64	1,038.84

Thaw (part) (\$8.83 deducted from income for sinking premium),

\$20,000 Girard Point Storage Co. 1st M. 3½'s of 1940, . . . . .	20,185.41	691.17
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## ARNOLD ARBORETUM

## Robert Charles Billings,

\$5,000 Butte Water Co. 1st M. 5's of 1921, . . . . .	4,000.00	250.00
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## Bayard &amp; Ruth S. Thayer Fund,

\$5,000 U. S. of America 3½'s 1st Liberty Loan, . . . . .	5,000.00	175.00
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## BUSSEY INSTITUTION

## Woodland Hill,

Laboratory of Comparative Pathology building, . . . . .	20,658.86	1,000.00
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## Mrs. William H. Bliss Fund,

\$50,000 New York & New Jersey 5's of 1932, . . . . .	50,000.00	2,500.00
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## SPECIAL FUNDS

## Anonymous,

\$20,000 Massachusetts 3's of 1930, . . . . .	20,000.00	600.00
19,000 " " 1941, . . . . .	19,000.00	570.00
189 shares Edison Electric Illum. Co. of Boston, . . . . .	52,451.98	2,268.00

## Anonymous Fund No. 2,

52 shares Massachusetts Gas Co., . . . . .	4,758.00	390.00
76 " Puget Sound Traction, Light, & Power Co., preferred, . . . . .	7,600.00	114.00
100 " Puget Sound Traction, Light, & Power Co., common, . . . . .	5,200.00	.....
17 " United Fruit Co., . . . . .	2,686.00	136.00

## Anonymous Fund No. 3,

\$10,000 Consolidation Coal Co. 5's of 1950, . . . . .	10,000.00	500.00
10,000 Cudahy Packing Co., 5's of 1946, . . . . .	10,000.00	500.00
10,000 Galveston, Harrisburg & San Antonio 6's of 1931, . . . . .	10,000.00	500.00

Amounts carried forward, . . . . . \$3,265,627.46 \$150,967.88

	Principal.	Net Income.
Amounts brought forward, . . .	\$3,265,627.46	\$150,967.83
<b>Anonymous Fund No. 3 (continued).</b>		
\$10,000 Great Britain and Ireland 5½'s of 1919, .	10,000.00	550.00
10,000 Interborough Rapid Transit 5's of 1966, .	10,000.00	500.00
50,000 Kansas City, Memphis & B'ham 5's of 1984,	40,000.00	2,500.00
<b>Bussey Trust (part),</b>		
Real Estate in Boston, . . . . .	365,978.05	22,553.58
<b>Fund of the Class of 1834,</b>		
Policy of Mass. Hospital Life Insurance Co., . . .	1,000.00	42.50
<b>Fund of the Class of 1844,</b>		
Policy of Mass. Hospital Life Insurance Co., . . .	6,500.00	276.25
<b>Fund of the Class of 1853,</b>		
Policy of Mass. Hospital Life Insurance Co., . . .	3,725.00	158.31
<b>Fund of the Class of 1857,</b>		
\$5,000 Kansas City, Fort Scott & Memphis 6's of 1928,	5,000.00	300.00
<b>Freshman Halls,</b>		
Real Estate in Cambridge, . . . . .	99,672.60	338.86
<b>Price Greenleaf. (\$288.32 deducted from income</b>		
<b>for sinking premiums.) The total amount of this</b>		
<b>Fund is \$790,445.48, invested as follows:</b>		
\$70,000 Broadway Realty Co. Purchase money		
1st M. 5's of 1926, . . . . .	71,485.00	3,289.00
43,500 Central Vermont R'y 1st M. 4's of 1920, .	37,845.00	1,740.00
1,000 Chicago, Burl. & Quincy R. R. 4's of 1922,	880.00	40.00
50,000 Chicago Junction Railways & Union Stock		
Yards Coll. Trust 5's of 1940, . . . . .	49,375.00	2,500.00
20,000 Cleveland R'y Ref. M. 5's of 1931, . . .	20,000.00	1,000.00
61,000 Colorado Power Co. 5's of 1953, . . . .	52,960.00	3,050.00
\$30,000 Commonwealth Power Co. 1st M. 5's of 1924,	29,850.00	1,500.00
35,000 Galveston Electric Co. 1st M. 5's of 1940,	32,900.00	1,750.00
55,000 Great Lakes Power Co. 1st M. 6's of 1932,	52,250.00	.....
8,000 Kansas City, Fort Scott & Memphis Cons.		
M. 6's of 1928, . . . . .	8,695.91	402.68
50,000 Metropolitan Tel. & Tel. Co. 1st M. 5's		
of 1918 (sold during year), . . . . .		2,500.00
50,000 New England Tel. & Tel. Co. 5's of 1932,	50,000.00	2,500.00
34,000 New York Central & Hudson River R. R.		
(Michigan Central Collateral) 3½'s of 1998,	28,412.10	1,190.00
3,000 New York Railways Co. 1st R. E. & Ref.		
M. 4's of 1942, . . . . .	2,373.94	120.00
18,000 New York Railways Co. Adj. M. 5's of 1942,	9,453.39	.....
32,000 Northern Pacific-Great Northern Joint 4's		
(C. B. & Q. collateral) of 1921, . . . .	19,993.55	1,280.00
50,000 Union Pacific R.R. 1st M. & L.G. 4's of 1947,	44,625.00	2,000.00
360 shares Boston & Lowell R. R., . . . . .	46,800.00	2,880.00
237 " Fitchburg R. R., preferred, . . . . .	22,306.27	1,185.00
61 " Great Northern, preferred, . . . . .	13,445.31	427.00
40 " Great Northern Iron Ore Properties, .	.....	140.00
Amounts carried forward, . . . . .	\$4,401,153.58	\$207,681.01

	Principal.	Net Income.
Amounts brought forward, . . .	\$4,401,153.58	\$207,681.01
<b>Price Greenleaf (continued).</b>		
855 shares Old Colony R. R., . . . . .	63,190.00	2,485.00
18 " N. Y. Central & Hudson River R. R., .	1,880.00	65.00
290 " Northern R. R. (N. H.), . . . . .	29,290.00	1,740.00
52 " West End Street Railway, preferred, .	4,305.56	208.00
34 " Central Vermont R'y, . . . . .	428.72	.....
855 " Pennsylvania R. R., . . . . .	59,256.04	2,565.00
21 " Boston Real Estate Trust, . . . . .	27,483.25	945.00
100 " Paddock Building Trust, . . . . .	10,000.00	425.00
Cash in American Trust Co., . . . . .	1,461.44	97.82
<b>Charles L. Hancock Bequest (part),</b>		
Real Estate in Chicago, . . . . .	65,000.00	4,364.95
<b>Gordon McKay Endowment (part),</b>		
\$120,000 American Tel. & Tel. 4's of 1929, . . . .	114,000.00	4,800.00
20,000 Edison Electric Ill. Co. 2 yr. 6% Gold Notes of 1919, . . . . .	19,825.00	.....
15,000 General Electric Co. 3 yr. 6% Gold Notes of 1920, . . . . .	15,487.50	.....
10,000 General Electric Co. 2 yr. 6% Gold Notes of 1919, . . . . .	10,037.50	.....
100,000 Kanawha & Michigan 5's of 1927, . . . .	95,500.00	5,000.00
12,250 Kansas City Light & Power Co. 6's of 1944,	12,250.00	732.00
22,750 Kansas City Railways Co. 6's of 1944, . .	22,750.00	1,362.00
80,000 New York, N. H. & H. Deb. 4's of 1955, .	78,800.00	3,200.00
12,000 Puget Sound Electric 5's of 1932, . . . .	11,760.00	600.00
10,000 U. K. of Great Britain & Ireland 5½'s of 1919, . . . . .	10,083.34	.....
860 shares American Tel. & Tel. Co., . . . .	110,090.84	6,880.00
300 " Great Northern, . . . . .	42,713.37	2,100.00
240 " Northern Pacific, . . . . .	35,400.00	1,680.00
165 " Pennsylvania, . . . . .	10,800.75	495.00
<b>Robert Troup Paine (accumulating),</b>		
\$8,000 Massachusetts 3½'s of 1928, . . . . .	7,596.00	280.00
88,000 " " 1935, . . . . .	86,951.78	1,283.88
2,000 " " 1936, . . . . .	1,885.00	70.00
31,000 " " 1938, . . . . .	29,612.28	1,085.00
<b>Frederick Sheldon (part),</b>		
29 shares Mexican Telegraph Co., . . . . .	3,900.29	290.00
100/15000th Trust Estate Hastings & Dak. Ry. Co.,	300.00	100.00
<b>George Smith Bequest (part),</b>		
\$10,000 Duquoin, Ill., Water Works Co. 6's of 1901, . . . . .	1.00	.....
	<u>\$5,332,693.24</u>	<u>\$250,533.66</u>

**SUMMARY:**

Cash, Exhibit A, . . . . .	\$1,461.44
Securities, Exhibit A, . . . . .	3,417,682.22
Land and Buildings, Exhibit A, . . . . .	1,913,549.58
Interest and Dividends, Exhibit B, . . . . .	142,872.68
Rents, Land and Buildings, Exhibit B, . . . . .	107,660.98
	<u>\$5,332,693.24</u>
	<u>\$250,533.66</u>

SCHEDULE 2

**SECURITIES—GENERAL INVESTMENTS**

June 30, 1918

Mortgages and Other Loans.		Principal.	Income.
Mortgages, . . . . .		\$684,177.29	
Advances to Bussey Trust, . . . . .		308,499.08	
American Woolen Co., . . . . .		150,000.00	
Arlington Mills, . . . . .		100,000.00	
Armour & Co., . . . . .		90,000.00	
Boston Woven Hose & Rubber Co., . . . . .		100,000.00	
Everett Mills, . . . . .		100,000.00	
Harmony Mills, . . . . .		50,000.00	
Lanett Cotton Mills, . . . . .		50,000.00	
W. H. McElwain Co., . . . . .		50,000.00	
Pacific Mills, . . . . .		200,000.00	
Saco-Lowell Shops, . . . . .		100,000.00	
Geo. A. Sawyer, Trustee, . . . . .		1,000.00	
Sharp Manufacturing Co., . . . . .		50,000.00	
Turners Falls Power & Electric Co., . . . . .		50,000.00	
Waltham Watch Co., . . . . .		50,000.00	
West Point Manufacturing Co., . . . . .		50,000.00	
York Manufacturing Co., . . . . .		100,000.00	
		<u>\$2,228,676.87</u>	<u>\$81,369.88</u>
<b>Public Funds.</b>			
\$50,000 Dominion of Canada 2 y'r 5% Notes, . .	\$48,375.00	.....	
100,000 Government of French Republic 5½% Notes of April, 1919, . . . . .	99,000.00	\$4,748.75	
150,000 Great Britain & Ireland 5½% Gold Notes of February, 1918 (sold during year), . . . . .	.....	7,516.65	
100,000 Great Britain & Ireland 5½'s of 1921, . .	98,500.00	5,500.00	
80,000 United States of America 1st Liberty Loan 3½'s, . . . . .	29,988.00	1,117.96	
98,000 United States of America 2d Liberty Loan 4's, . . . . .	92,880.00	1,458.01	
100,000 United States of America 3d Liberty Loan 4½'s 25% paid, . . . . .	25,000.00	.....	
94,000 United States of Mexico 4's of 1954, . .	87,250.00	.....	
	<u>\$480,993.00</u>	<u>\$20,336.37</u>	
<b>Railroad Bonds.</b>			
\$100,000 Baltimore & Ohio 1st M. 4's of 1948, . .	\$96,625.00	\$4,000.00	
21,000 Baltimore & Ohio Conv. 4½'s of 1933, . .	20,058.30	945.00	
100,000 B. & O. (S. W. Div.) 1st M. 3½'s of 1925,	89,750.00	3,500.00	
100,000 Baltimore & Ohio (Pittsburg, Lake Erie & West Virginia) Ref. M. 4's of 1941,	99,250.00	4,000.00	
125,000 Bangor & Aroostook Cons. Ref. M. 4's of 1951, . . . . .	118,750.00	5,000.00	
Amounts carried forward, . . . . .	<u>\$424,433.30</u>	<u>\$17,445.00</u>	

	Principal.	Income.
Amounts brought forward, . . . .	\$424,488.80	\$17,445.00
<b>Railroad Bonds (<i>continued</i>).</b>		
\$100,000 Boston & Albany, Ref. M. 5's of 1963,	102,094.00	4,952.40
12,000 Burl. & Mo. in Nebr. non-ex. 6's of 1918 (sold during year), . . . . .	.....	480.00
50,000 Canadian Northern 6's of 1917 (sold during year), . . . . .	.....	1,500.00
544,000 Chicago, Burl. & Quincy 3½'s of 1949, . .	536,570.49	19,040.00
150,000 " " Gen. M. 4's of 1958,	145,250.00	6,000.00
40,400 Chicago, Milwaukee & St. Paul Conv. 4½'s of 1932, . . . . .	40,428.18	1,815.83
23,900 Chicago, Milwaukee & St. Paul Conv. 5's of 2014, . . . . .	23,900.00	1,195.00
100,000 Chicago & No. Western Gen. M. 3½'s of 1987, . . . . .	100,816.80	3,487.90
50,000 Chicago & Western Indiana 5's of 1917, (sold during year), . . . . .	.....	1,250.00
50,000 Chicago & Western Indiana 6's of 1918,	50,000.00	1,876.11
100,000 Chicago, Rock Island & Pacific Gen. M. 4's of 1988, . . . . .	105,495.76	3,920.36
184,000 Duluth, Missabe & Northern General M. 5's of 1941, . . . . .	193,981.70	8,746.28
100,000 Galveston, Harrisburg & San Antonio, Mex. & Pac. Ext. 5's, . . . . .	99,250.00	5,000.00
100,000 Illinois Central R'y and Chicago, St. Louis, & New Orleans R'y Joint 1st Ref. M. 5's of 1968, . . . . .	98,750.00	5,000.00
100,000 Indiana, Ill. & Iowa 1st M. 4's of 1950,	96,500.00	4,000.00
100,000 Indianapolis Union R'y Gen. & Ref. M. 5's of 1965, . . . . .	99,250.00	5,000.00
225,000 Kansas City, Fort Scott & Memphis Cons. M. 6's of 1928, . . . . .	245,813.77	11,187.36
184,000 Kansas City, Memphis & Birmingham (assented) Income 5's of 1984, . . .	120,300.00	6,700.00
364,000 Kansas City Terminal R'y 1st M. Gold 4's of 1960, . . . . .	298,975.00	5,312.00
100,000 Lake Shore & Michigan Southern Deb. 4's of 1931, . . . . .	98,250.00	4,000.00
300,000 Long Island Unified M. 4's of 1949, . .	283,257.50	12,000.00
200,000 Louisville & Jeffersonville Bridge Co. 1st M. 4's of 1945, . . . . .	191,000.00	8,000.00
100,000 Minneapolis Union 1st M. 5's of 1922, .	100,466.06	4,844.65
100,000 Montana Central 1st M. 6's of 1937, . .	121,508.86	4,805.05
100,000 New Orleans, Texas & Mexico 6's of 1925, . . . . .	99,000.00	6,000.00
133,000 New York Central Conv. Deb. 6's of 1935, . . . . .	130,600.00	7,980.00
Amounts carried forward, . . . .	\$3,800,891.42	\$161,587.94

## GENERAL INVESTMENTS

	Principal.	Income.
Amounts brought forward, . . .	\$3,800,891.42	\$161,537.94
<b>Railroad Bonds (<i>continued</i>).</b>		
\$300,000 New York Central 4's of 1998, . . . .	294,464.40	12,000.00
100,000 New York, Lake Erie, & Western Docks & Improvement Co. 1st M. 5's of 1948, . . . .	100,000.00	5,000.00
25,000 New York, New Haven & Hartford Con- vertible Deb. 6's of 1948, . . . . .	25,000.00	1,500.00
100,000 New York, New Haven & Hartford Deb. 4's of 1955, . . . . .	104,615.40	3,871.80
200,000 New York, Ontario & Western Ref. M. 4's of 1992, . . . . .	208,569.55	7,882.60
100,000 New York, Westchester & Boston R'y 1st M. 4½'s of 1946, . . . . .	96,250.00	4,500.00
370,000 Northern Pacific—Great Northern Joint 4's (C. B. & Q. Coll.) of 1921, . . . .	190,549.67	14,800.00
100,000 Oregon Short Line Cons. 1st M. 5's of 1946, . . . .	111,633.31	4,569.14
100,000 Oregon Short Line Ref. M. 4's of 1929, . . . .	96,875.00	4,000.00
250,000 Richmond—Washington Co. Coll. Trust 4's of 1943, Series C, . . . . .	254,130.50	9,827.90
100,000 St. Louis & San Francisco P. L. 4's of 1950, . . . . .	90,900.00	4,000.00
25,000 St. Louis & San Francisco Cum. Adj. 6's of 1955, . . . . .	24,281.25	1,500.00
£40,000 St. Paul, Minneapolis & Manitoba (Paci- fic Extension) 4's of 1940, . . . . .	198,787.86	7,526.63
\$100,000 Southern Pacific 1st Ref. M. 4's of 1955, . . . .	97,062.50	4,000.00
100,000 Southern Pacific Co. Conv. 4's of 1929, . . . .	99,625.00	4,000.00
400,000 Terminal R. R. Association of St. Louis Gen. M. Ref. 4's of 1953, . . . . .	358,000.00	16,000.00
200,000 Union Pacific 1st M. & L. G. 4's of 1947, . . . .	177,114.75	16,200.00
100,000 " " Conv. 4's of 1927, . . . .	95,392.50	4,000.00
	<u>\$6,424,143.11</u>	<u>\$286,716.01</u>
<b>Traction Bonds.</b>		
\$100,000 Boston Elevated R'y 5's of 1942, . . .	\$100,000.00	\$5,000.00
200,000 Chicago Railways 1st M. 5's of 1927, . .	198,166.70	10,000.00
100,000 Cleveland Railway Ref. M. 5's of 1931, . . . .	100,000.00	5,000.00
100,000 Georgia Railway & Power Co. 5's of 1954, . . . . .	92,500.00	5,000.00
300,000 Interborough—Metropolitan Coll. Trust 4½'s of 1956, . . . . .	254,782.50	13,500.00
200,000 Interborough Rapid Transit Co. 5's of 1966, . . . . .	197,000.00	10,000.00
100,000 Metrop. West Side Elevated 4's of 1938, . . . .	91,746.25	4,000.00
100,000 " " " Ext. M. 4's of 1938, . . . . .	97,000.00	4,000.00
50,000 Milwaukee Electric Railway & Light Co. 7% Notes of 1920, . . . . .	49,125.00	.....
Amounts carried forward, . . . .	\$1,180,320.45	\$56,500.00

## GENERAL INVESTMENTS

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	Principal.	Income.
Amounts brought forward, . . .	\$1,180,320.45	\$56,500.00
Traction Bonds ( <i>continued</i> ).		
\$150,000 Montreal Tramways Co. 1st M. Ref. 5's of 1941, . . . . .	149,625.00	7,500.00
71,000 New York Railways Co. Adj. M. 5's of 1942, . . . . .	37,314.09	.....
16,000 New York Railways Co. 1st R. E. & Ref. M. 4's of 1942, . . . . .	12,537.67	640.00
100,000 Northern Texas Traction Co. 1st M. 5's of 1938, . . . . .	100,000.00	5,000.00
100,000 Nova Scotia Tramways & Power Co. 5's of 1946, . . . . .	94,500.00	5,000.00
300,000 Old Colony Street R'y 1st M. Ref. 4's of 1954, . . . . .	270,500.00	6,000.00
100,000 Second Ave. (N.Y.) Con. M. 5's of 1948, . . . . .	115,789.60	.....
1,000 Springfield Railway & Light Co. S. F. 5's of 1926, . . . . .	1,000.00	125.00
21,000 Third Avenue R'y 1st Ref. M. 4's of 1960, . . . . .	17,220.50	840.00
55,500 Third Avenue R'y Adj. Inc. 5's of 1960, . . . . .	40,489.42	693.75
50,000 Toronto Railway 6% Notes of 1918, . . . . .	49,375.00	1,483.33
	<u>\$2,068,871.73</u>	<u>\$83,782.08</u>

## Sundry Bonds.

\$100,000 Adirondack Electric Power Co. 5's of 1962, . . . . .	\$98,000.00	\$5,000.00
100,000 Alabama Power Co. 5's of 1946, . . . . .	95,000.00	5,000.00
200,000 American Agricultural Chemical Co. 5's of 1924, . . . . .	190,000.00	10,000.00
100,000 American Foreign Securities Co. 5's of 1919, . . . . .	98,000.00	5,000.00
200,000 American Smelting & Refining Co. 1st 5's of 1947, . . . . .	196,000.00	10,000.00
100,000 American Tel. & Tel. Co. 4's of 1929, . . . . .	101,633.34	3,836.67
120,000 American Tel. & Tel. Co. 5's of 1946, . . . . .	117,600.00	6,000.00
125,000 Armour & Co. 6's of June, 1919, . . . . .	124,062.50	.....
100,000 Bell Telephone Co. of Canada 5's of 1925, . . . . .	100,600.00	4,853.75
100,000 Bethlehem Steel Co. 5's of 1919, . . . . .	98,487.50	1,694.45
50,000 Boston Consolidated Gas Co. 4½'s of 1919, . . . . .	50,000.00	2,250.00
145,000 Broadway Realty Co. Purchase money 1st M. 5's of 1926, . . . . .	148,894.12	6,693.70
50,000 Bucyrus Co. 1 year 6% Notes (matured and paid), . . . . .	.....	2,766.67
100,000 Chicago Junction Railways and Union Stock Yards 5's of 1940, . . . . .	98,500.00	5,000.00
100,000 Chicago Junction Railways and Union Stock Yards 4's of 1940, . . . . .	98,750.00	4,000.00
Amounts carried forward, . . . . .	\$1,615,477.46	\$72,095.24

## GENERAL INVESTMENTS

	Principal.	Income.
Amounts brought forward, . . . .	\$1,615,477.46	\$72,095.24
<b>Sundry Bonds (<i>continued</i>).</b>		
\$100,000 Chicago Telephone Co. 5's of 1923, . .	100,951.89	4,762.13
75,000 Chicago Union Station 4½'s of 1963, . .	75,000.00	3,375.00
100,000 Cincinnati Gas and Electric 5's of 1956, .	99,560.00	5,000.00
107,000 City of Victoria, B. C., Deb. 4½'s of 1923, . . . . .	100,770.00	4,815.00
100,000 Cleveland Electric Ill. Co. 1st 5's of 1939, .	91,500.00	1,597.22
100,000 Columbus Power Co. 1st 5's of 1936, .	88,830.00	3,735.11
100,000 Commonwealth Edison Co. 1st M. 5's of 1948, . . . . .	100,000.00	5,000.00
50,000 Consumers Power Co. 6% Notes of 1919, .	49,500.00	1,258.33
99,000 Crane Company 5½'s of 1944, . . . . .	98,970.00	5,445.00
50,000 Dallas Light & Power Co. 7's of 1920, .	49,500.00	.....
50,000 Edison Electric Ill. Co. of Brockton 6% Notes of 1919, . . . . .	48,800.00	666.67
50,000 Electric Securities Corporation 5's of 1940, 9th series, . . . . .	50,000.00	2,500.00
50,000 Electric Securities Corporation 5's of 1942, 11th series, . . . . .	50,000.00	2,500.00
62,000 Electric Securities Corporation 5's of 1946, 14th series, . . . . .	61,410.00	3,100.00
10,000 General Electric Co. 6% Notes of 1920, .	9,975.00	256.67
100,000 General Electric Co. Deb. 5's of 1952, .	99,750.00	5,000.00
200,000 Great Western Power Co. 5's of 1946, .	177,500.00	10,000.00
300,000 Illinois Steel Co. Deb. 4½'s of 1940, . .	284,250.00	13,500.00
100,000 International Cotton Mills Co. 6% Notes of 1918 (sold during year), . . . . .	.....	4,484.00
100,000 International Cotton Mills Co. 7% Notes of 1920, . . . . .	98,500.00	.....
150,000 Kansas City Stock Yards Co. Deb. 5's of 1920, . . . . .	150,000.00	7,500.00
100,000 Mahoning & Shenango Railway and Light Co. 5's of 1920, . . . . .	97,500.00	5,000.00
50,000 Massachusetts Gas Co.'s S. F. 4½'s of 1929, . . . . .	48,375.00	2,250.00
100,000 Michigan State Telephone Co. 5's of 1924, .	100,000.00	5,000.00
300,000 Midvale Steel & Ordnance Co. 5's of 1936, .	295,751.25	15,000.00
100,000 Minneapolis General Electric Co. Gen. M. 5's of 1934, . . . . .	101,377.19	4,908.20
105,400 Montana Power Co. 5's of 1943, . . . .	96,441.00	5,270.00
100,000 Municipal Gas & Electric Co. of Rochester, N. Y., 1st M. 4½'s of 1942, . . .	100,000.00	4,500.00
100,000 National Tube Co. 5's of 1952, . . . .	99,750.00	5,000.00
100,000 New Bedford Gas & Edison Light Co. 1st 6's of 1928, . . . . .	100,000.00	.....
68,475 New England Fuel and Transportation Co. 6% Notes of 1920, . . . . .	66,420.75	86.03
Amounts carried forward, . . . .	\$4,605,859.04	\$203,604.60

	Principal.	Income.
Amounts brought forward, . . . .	\$4,605,859.04	\$203,604.60
<b>Sundry Bonds (continued).</b>		
\$79,000 New England Power Co. 1st 5's of 1951,	75,840.00	.....
100,000 Nipe Bay Co. 5's of 1925, . . . . .	92,500.00	5,000.00
100,000 Northern States Power Co. 5's of 1941,	96,500.00	5,000.00
100,000 Oklahoma Gas & Electric Co. 6% Notes of 1919, . . . . .	98,125.00	2,641.67
100,000 Pacific Coast Power 5's of 1940, . . .	96,000.00	5,000.00
45,000 Pejepscot Paper Co. 1st M. 5's of 1921,	44,550.00	2,250.00
121,000 Portland Gen'l Elec. 1st M. 5's of 1935,	121,492.84	9,870.42
100,000 Portland R'y Light & Power Co. 1st M. 5's of 1942, . . . . .	95,500.00	5,000.00
50,000 Proctor & Gamble Co. 7% Notes of 1919, . . . . .	49,875.00	.....
100,000 Public Service Co. of Northern Illinois 6's of 1920, . . . . .	97,700.00	5,616.88
43,500 Puget Sound Traction, Light & Power Co. 6's of 1919, . . . . .	40,774.38	18,848.38
150,000 Puget Sound Traction, Light & Power Co. 7's of 1921, . . . . .	146,625.00	.....
50,000 Railway & Light Securities Co. Coll. Trust 5's of 1935, 1st series . . . . .	50,153.12	2,490.44
100,000 Railway & Light Securities Co. Coll. Trust 5's of 1939, 2d series, . . . . .	100,000.00	5,000.00
100,000 Railway & Light Securities Co. Coll. Trust 5's of 1939, 3d series, . . . . .	98,000.00	5,000.00
50,000 Railway & Light Securities Co. Coll. Trust 5's of 1944, 5th series, . . . . .	49,250.00	2,500.00
200,000 San Francisco Gas & Electric Co. 4½'s of 1938, . . . . .	187,000.00	9,000.00
100,000 Seattle Electric Co. 5's of 1930, . . .	100,846.14	4,923.07
196,000 Seattle Electric — Seattle Everett 5's of 1939, . . . . .	181,967.50	9,800.00
100,000 Shawinigan Water & Power Co. 6% Notes of 1919, . . . . .	97,500.00	2,938.33
100,000 Southern Bell Telephone Co. 5's of 1941,	99,000.00	5,000.00
100,000 Southern California Edison Co. 6% Notes of 1919, . . . . .	98,625.00	2,500.00
200,000 Southern Power Co. 1st M. 5's of 1930,	197,500.00	10,000.00
191,000 St. Louis National Stock Yards Co. 1st M. 4's of 1930, . . . . .	184,465.00	7,640.00
100,000 Tacoma Railway & Power Co. 1st M. 5's of 1929, . . . . .	100,676.90	4,932.30
50,000 United Electric Securities Co. Coll. Trust 5's of 1936, 24th series, . . . . .	50,000.00	2,500.00
10,000 United Electric Securities Co. Coll. Trust 5's of 1937, 26th series, . . . . .	10,000.00	500.00
Amounts carried forward, . . . .	\$7,266,324.92	\$332,046.04

## GENERAL INVESTMENTS

	Principal.	Income.
Amounts brought forward, . . .	\$7,266,324.92	\$832,046.04
<b>Sundry Bonds (<i>continued</i>).</b>		
\$25,000 United Electric Securities Co. Coll.		
Trust 5's of 1940, 32d series, . . . .	25,187.50	1,241.06
100,000 United Electric Securities Co. Coll.		
Trust 5's of 1942, 36th series, . . . .	100,000.00	5,000.00
100,000 United Electric Securities Co. Coll.		
Trust 5's of 1942, 37th series, . . . .	99,500.00	5,000.00
23,000 United Electric Securities Co. Coll.		
Trust 5's of 1943, 38th Series, . . . .	22,770.00	1,150.00
100,000 United Electric Securities Co. Coll.		
Trust 5's of 1944, 39th series, . . . .	98,750.00	5,000.00
100,000 United Fruit Co. 4½'s of 1925, . . . .	94,750.00	6,981.25
100,000 United States Rubber Co. 5's of 1947, .	87,850.00	3,350.00
50,000 U. S. Smelting, Refining & Mining Co.		
6's of 1926, . . . . .	51,361.00	2,805.45
100,000 United Traction & Electric Co. 1st M. 5's		
of 1933, . . . . .	106,467.00	4,537.50
50,000 Waltham Watch Co. 4½% Gold Notes of		
1918 (sold during year), . . . . .	.....	2,350.00
100,000 Washington Water Power Co. 5% Notes		
of 1918 (sold during year), . . . . .	.....	3,750.00
100,000 Washington Water Power Co. 6% Notes		
of 1919, . . . . .	98,500.00	1,500.00
200,000 Washington Water Power Co. 5's of 1939,	200,278.00	9,986.00
100,000 Western Elec. Co. 1st M. 5's of 1922, .	99,500.00	9,652.78
100,000 Westinghouse Electric Manufacturing		
Co. 5% Notes of 1917 (sold during yr), . . . . .	.....	2,500.00
100,000 Winnsboro Mills Co. 6% Gold Notes of		
1921, . . . . .	98,000.00	4,983.33
	<u>\$8,449,238.42</u>	<u>\$401,633.41</u>
<b>Railroad Stocks.</b>		
812 shares Baltimore & Ohio, . . . . .	\$79,329.17	\$4,060.00
60 " Baltimore & Ohio, preferred, . . . .	4,500.00	240.00
507 " Chicago, Milwaukee & St. Paul, pfd., .	50,670.58	1,774.50
1268 " Chicago, Milwaukee & St. Paul, . .	177,425.94	2,536.00
2510 " Chicago & No. Western, . . . . .	340,628.99	17,570.00
1653 " Great Northern, preferred, . . . . .	322,411.96	11,571.00
955 " Great Northern Iron Ore Properties, }		3,342.50
960 " Louisville & Nashville, . . . . .	109,924.00	6,720.00
8 " Louisville Property . . . . .	1.00	.....
700 " Manhattan, . . . . .	92,762.50	4,900.00
288 " New York Central & Hudson River, .	20,673.21	1,440.00
1000 " Northern Pacific, . . . . .	115,315.00	7,000.00
7576 " Pennsylvania, . . . . .	449,932.58	22,728.00
232 " Third Avenue Railway, . . . . .	5,800.00	.....
500 " Union Pacific, . . . . .	77,812.50	5,000.00
	<u>\$1,847,187.48</u>	<u>\$88,882.00</u>

## GENERAL INVESTMENTS

65

	Principal.	Income.
<b>Manufacturing and Telephone Stocks.</b>		
3684 shares American Tel. & Tel. Co., . . . . .	\$429,023.71	\$27,272.00
360 " Amoskeag Manufacturing Co., . . . . .	1.00	1,080.00
2240 " General Electric Co., . . . . .	79,942.50	18,480.00
187 " Merrimack Manufacturing Co., . . . . .	18,615.10	935.00
1225 " Pacific Mills, . . . . .	42,708.29	18,375.00
1000 " Western Union Telegraph Co., . . . . .	62,125.00	7,250.00
	<u>\$632,415.60</u>	<u>\$73,392.00</u>

**Real Estate Trust Stocks.**

1000 shares Barristers Hall, . . . . .	\$92,766.00	\$4,000.00
548 " Boston Ground Rent Trust, . . . . .	54,800.00	2,740.00
250 " Business Real Estate, . . . . .	23,750.00	1,125.00
1996 " Congress Street Associates, . . . . .	189,642.00	6,720.98
2500 " Department Store, . . . . .	220,291.88	.....
1000 " Essex Street, . . . . .	100,000.00	4,000.00
850 " Kimball Building, . . . . .	83,100.00	.....
1090 " Paddock Building, . . . . .	104,458.72	4,632.50
1000 " Post Office Square Building, . . . . .	103,000.00	3,500.00
1000 " St. Paul Business Real Estate Assoc. . . . .	100,000.00	4,500.00
840 " Trimountain Trust, . . . . .	74,638.50	3,725.75
2000 " Western Real Estate Trust, . . . . .	207,750.00	14,000.00
	<u>\$1,354,197.10</u>	<u>\$48,944.28</u>

**Sundry Stocks.**

1044 shares Edison Elec. Illum. Co., Boston, Mass., . . . . .	\$206,900.65	\$12,528.00
500 " Massachusetts Gas Companies, pref'd, . . . . .	37,169.52	2,000.00
700 " Turners Falls Power & Electric Co., . . . . .	76,500.00	1,750.00
80 " Washington Water Power Co., . . . . .	2,000.00	80.00
	<u>\$322,570.17</u>	<u>\$16,358.00</u>

**SUMMARY :**

Mortgages and Notes, . . . . .	\$2,228,676.37	\$81,369.88
Public Funds, . . . . .	480,993.00	20,336.37
Railroad Bonds, . . . . .	6,424,143.11	286,716.01
Traction Bonds, . . . . .	2,068,671.73	88,782.08
Sundry Bonds, . . . . .	8,449,288.42	401,638.41
Railroad Stocks, . . . . .	1,847,187.43	88,882.00
Manufacturing and Tel. Stocks, . . . . .	632,415.60	73,392.00
Real Estate Trust Stocks, . . . . .	1,354,197.10	48,944.28
Sundry Stocks, . . . . .	322,570.17	16,358.00
Total, Exhibit A, . . . . .	<u>\$23,808,092.93</u>	
Total, Exhibit B, . . . . .		<u>\$1,101,413.98</u>

**SCHEDULE 3**

**LAND AND BUILDINGS—GENERAL INVESTMENT**

June 30, 1918

Real Estate in Boston.	Principal.	Net Income.
Adams Estate, Washington Street, . . . . .	\$250,000.00	\$16,062.26
Amory Estate, Franklin Street, . . . . .	206,013.80	3,655.68
Brewer Estate, 36 and 37 South Market St., . .	23,428.93	630.38
Cowdin Estate, 18 and 14 Washington St., North,	36,000.00	1,738.11
Estate, 128 to 136 Federal Street, . . . . .	499,766.49	21,488.96
Estate, 364 and 366 Washington St., . . . . .	308,859.97	6,075.18
Estate, 81 and 38 Otis and 112 Arch Streets, . .	153,077.56	5,543.44
Estate, 16 to 18 Union and 8 to 11 Friend Streets (sold during year 1916-17), . . . . .	.....	7.55
Faneuil Hall Square Estate, . . . . .	197,047.80	8,328.84
Gerrish Block, Blackstone and North Streets, . .	192,875.75	10,180.71
Gray Estate, Washington Street, . . . . .	1,013,661.60	104,682.76
Jaynes Estate, Washington and Hanover Streets,	202,000.00	11,975.00
Lowell Estate, Washington Street, . . . . .	493,868.91	32,897.06
Old Boston Music Hall Estate, . . . . .	580,035.01	30,086.81
Townsend Estate, Hawkins Street, . . . . .	44,419.49	692.59
Webb Estate, Washington Street, . . . . .	164,604.79	18,050.25
Estate, 14 and 20 Franklin St., . . . . .	64,803.61	2,101.18
Estate, 17 and 19 Washington Street, North, . .	47,265.00	1,785.05
Estate, 20 and 21 Washington Street, North, . .	60,592.85	1,574.73
Estate, 175-183 Summer Street, . . . . .	271,457.85	13,572.83
Total, Exhibit A, . . . . .	<u>\$4,809,779.41</u>	
Total, Exhibit B, . . . . .		<u>\$291,129.37</u>

## ABBREVIATIONS USED IN SCHEDULE 4, FUNDS AND GIFTS

The abbreviations G. Ex. and Sp. Ex. following the name of a school or department, indicate "general expense," and "special expense" respectively for that school or department. A memorandum of other abbreviations follows.

Ap. Chap. ....	Appleton Chapel	Fogg Mus. ....	Fogg Museum
Arch. Fell. ....	School of Architecture Fellowship	Ger. Mus. ....	Germanic Museum
Arch. Sch. ....	School of Architecture Scholarship	Gift Cap. ....	Gift for Capital
A. A. ....	Arnold Arboretum	Gr. Bus. L. F.	Graduate School Business Administration Loan Funds
B. I. ....	Bussey Institution	Gr. Sch. Med.	Graduate School of Medicine
B. H. Obs. ....	Blue Hill Meteorological Observatory	Gray Herb. ....	Gray Herbarium
Bot. Garden ....	Botanic Garden	Law L. F. ....	Law Loan Funds
Bot. Mus. ....	Botanical Museum	Law Sch. ....	Law Scholarships
Cap. Gain ....	Gain in Sale of Investments	Med. Fell. ....	Medical Fellowships
Cap. Loss. ....	Loss in Sale of Investments	Med. Sal. ....	Medical Salaries
Coll. B. F. ....	College Beneficiary Funds	Med. Sch. ....	Medical Scholarships
Coll. Fell. ....	College Fellowships	Min. Sch. ..	School of Mining Scholarship
Coll. Sal. ....	College Salaries	M. C. Z. ....	Museum of Comparative Zoölogy
Coll. Sch. ....	College Scholarships	Obs. ....	Astronomical Observatory.
Div. B. F. ....	Divinity Beneficiary Funds	Peab. Mus. ....	Peabody Museum
Div. Sal. ....	Divinity Salaries	P. M. Fell. ....	Peabody Museum Fellowships
Div. Sch. ....	Divinity Scholarships	Ph. Br. Ex. ..	Phillips Brooks House Expenses
Engin. Sch. ..	Engineering Scholarships	Sem. Mus. ....	Semitic Museum
F. & G. Sp. ..	Non-departmental Funds and Gifts, Schedule 36	Sum. Sch. ....	Summer Schools
		U. Ex. ....	University Expense
		U. Sal. ....	University Salaries

# FUNDS AND GIFTS

June 30, 1918

[The date following the title of a Fund, shows the year of its establishment.]

## UNIVERSITY FUNDS

	<i>Principal, July 1, 1917</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense</i>	<i>Principal, June 30, 1918</i>	<i>Totals</i>
Charles Allen (1913), . . . . .	\$3,000.00	Interest . . . \$154.50	U. Ex. . . . \$154.50	.....	\$3,000.00	
Anonymous (1910), . . . . .	133,280.76	" . . . 5,592.19	Annuities . . 5,600.00	.....	138,272.95	
Anonymous No. 2 (1913), . . . . .	29,912.21	" . . . 1,137.90		.....		
		Other receipts 338.86		.....	31,388.97	
Anonymous No. 3 (1916), . . . . .	401,494.98	Interest . . . 21,091.43		.....	422,576.46	
Anonymous No. 4 (1916), . . . . .	205,587.39	Gift Cap. . . 50,000.00		.....		
		Interest . . . 11,159.18	Annuities . . 10,020.71	.....	256,725.86	
2 Walter F. Baker (1909), . . . . .	1,855.18	To restore F'd 79,023.35				
		Interest . . . 97.08	U. Ex. . . . 97.08	.....	80,908.53	
William H. Baldwin, Jr. (1906), . .	2,000.00	" . . . 103.00	" . . . 103.00	.....	2,000.00	
Band Music (1903), . . . . .	1,143.00	" . . . 58.86	" . . . 58.86	.....	1,143.00	
Caroline M. Barnard Bequest (1911),	58,513.61	" . . . 3,018.67	" . . . 2,718.67	.....	58,513.61	
			Coll. Sch. . . 300.00	.....	668.67	
John Barnard (1777), . . . . .	666.67	" . . . 34.35	U. Ex. . . . 34.35	.....		
J. Arthur Beebe Bequest (1916), . .	226,175.00	Gift Cap. . . 15,000.00				
		Interest . . . 10,881.36	" . . . 10,881.36	.....	241,175.00	
Andrew Bigelow (1898), . . . . .	4,950.00	" . . . 254.92	" . . . 254.92	.....	4,950.00	
S. Parkman Blake and Robert Parkman Blake Memorial (1917)	.....	Gift Cap. . . 50,000.00				
		Interest . . . 2,462.11	" . . . 2,462.11	.....	50,000.00	
Stanton Blake (1899), . . . . .	5,000.00	" . . . 257.50	" . . . 257.50	.....	5,000.00	

Charlotte F. Blanchard (1891),	4,771.38	Interest . . .	245.71	U. Ex.	245.71	.....	4,771.38
Samuel D. Bradford (1886),	5,250.00	"	270.38	"	270.38	.....	5,250.00
Martin Brimmer (1907),	50,000.00	"	2,575.00	"	2,575.00	.....	50,000.00
James C. Carter (1906),	50,895.12	"	2,631.09	"	2,631.09	.....	50,895.12
John W. Carter (1898),	12,500.00	"	1,026.90	"	1,026.90	.....	12,500.00
Fund of the Class of 1842 (1908),	156.08	"	7.94	"	7.94	.....	156.08
Twenty-fifth Anniversary Funds:							
Class of 1881 (1906),	114,899.19	"	5,917.30	"	5,917.30	.....	114,899.19
Class of 1882 (1907),	100,000.00	"	5,150.00	"	5,150.00	.....	100,000.00
Class of 1883 (1908),	97,655.77	"	5,029.28	"	5,029.28	.....	97,655.77
Class of 1888 (1913),	93,000.00	"	4,761.50	"	4,761.50	.....	93,000.00
Class of 1889 (1914),	100,000.00	"	5,051.15	"	5,051.15	.....	100,000.00
Class of 1890 (1915),	86,000.00	"	4,429.00	"	4,429.00	.....	86,000.00
Class of 1891 (1916),	100,000.00	"	5,150.00	"	5,150.00	.....	100,000.00
Class of 1892 (1917),	100,000.00	"	3,500.00	"	3,500.00	.....	100,000.00
Class of 1893 (1918),	.....	Gift Cap. . .	100,000.00	"			
		Interest . . .	46.35	"	46.35	.....	100,000.00
Class of 1894 (1916),	14,103.96	Gift Cap. . .	1,300.00				
		Interest . . .	740.21			.....	16,149.17
Class of 1896 (1917),	15,065.61	"	775.90			.....	15,841.51
Class of 1899 (1916),	26,065.84	Gift Cap. . .	5,000.00				
		Interest . . .	1,489.59			.....	32,555.43
John Coggan (1652),	1,500.00	"	77.25	"	77.25	.....	1,500.00
Edwin Conant (1914),	1,061.60	"	54.69	"	54.69	.....	1,061.60
Edward Erwin Coolidge (1906),	11,764.25	"	842.35				
		Loans repaid	621.50			.....	13,228.10
Amounts carried forward, \$2,058,292.55							\$2,386,784.35

# UNIVERSITY FUNDS (continued)

	Principal, July 1, 1917	Receipts	Expenditures	Suspense	Principal, June 30, 1918	Totals
Amounts brought forward,	\$2,058,292.55				\$2,886,784.35	
Thomas Cotton (1727),	155.45	Interest . . . . .	\$7.98 U. Sal. . . . .	\$7.98	.....	155.45
John Cowdin (1888),	33,835.06	" . . . . .	1,742.50 U. Ex. . . . .	1,742.50	.....	33,835.06
George B. Dorr (1882),	115,966.56	" . . . . .	9,533.57 " . . . . .	9,533.57	.....	115,966.56
George Draper (1892),	48,458.50	" . . . . .	3,979.80 " . . . . .	3,979.80	.....	48,458.50
R. H. Eddy (1901),	56,788.00	" . . . . .	4,663.80 " . . . . .	4,663.80	.....	56,788.00
Harvard Ellis (1895),	101,225.49	" . . . . .	5,218.09 " . . . . .	5,218.09	.....	101,225.49
Richard W. Foster (1905),	20,918.57	" . . . . .	1,077.32 " . . . . .	1,077.32	.....	20,918.57
John Davis Williams French (1901),	5,322.09	" . . . . .	437.45 " . . . . .	437.45	.....	5,322.09
Gore (1884),	20,571.18	" . . . . .	1,059.41 " . . . . .	1,059.41	.....	20,571.18
John C. Gray (1881),	25,000.00	" . . . . .	2,053.89 " . . . . .	2,053.89	.....	25,000.00
Harvard Endowment (1917),	200,290.65	Gift Cap. . . . .	23,000.00 U. Sp. Ex. . . . .	1,000.00	.....	
		Interest . . . . .	9,622.92 Coll. G. Ex. . . . .	7,465.82	.....	
Walter Hastings (1888),	20,000.00	" . . . . .	1,189.44 F. & G. Sp. . . . .	290.65	.....	224,157.10
Henry L. Higginson (1906),	100,000.00	" . . . . .	6,059.07 U. Ex. . . . .	1,189.44	.....	20,000.00
Thomas Hollis (for Treasurer) (1721),	520.00	" . . . . .	26.78 " . . . . .	6,059.07	.....	100,000.00
Thomas Hubbard (1774),	1,000.00	" . . . . .	51.50 " . . . . .	26.78	.....	520.00
Nathaniel Hulton (1695),	444.44	" . . . . .	22.87 " . . . . .	51.50	.....	1,000.00
Thomas Hutchinson (1789),	238.33	" . . . . .	12.00 " . . . . .	22.87	.....	444.44
George Baxter Hyde (1895),	5,000.00	" . . . . .	257.50 " . . . . .	12.00	.....	238.33
Insurance and Guaranty (1860),	4,000.00	" . . . . .	.....	257.50	.....	5,000.00
Leonard Jarvis (1839),	16,871.63	" . . . . .	868.91 " . . . . .	.....	.....	4,000.00
Henry P. Kidder (1894),	10,000.00	" . . . . .	515.00 " . . . . .	868.91	.....	16,871.63
				515.00	.....	10,000.00

Lawrence Scientific School Loans re-  
paid Fund, . . . . .

15,456.98      Interest . . .      463.71  
Loans repaid      380.46 Eng. B.F. .      463.71      15,787.39

Joseph Lee (1809), . . . . . 10,000.00      Interest . . .      821.59      10,000.00

Morris Longstreth (1916), . . . . . 23,411.01      Gift Cap. . .      198.81      23,609.82

Susan B. Lyman Loan Fund (L.S.S.), 703.71      Interest . . .      1,211.23      23,609.82  
" . . .      25.74      " . . .      1,211.23      23,609.82

Theodore Lyman (1898), . . . . . 10,000.00      Trans. fr. Fd.      102.81      445.97

Robert C. McIlwain Bequest (1917), 4,750.00      Interest . . .      515.00      10,000.00

Gordon McKay Endowment (1909), 2,453,591.00      Gift Cap. . .      2,968.49      10,000.00

Interest . . .      355.61      " . . .      355.61      7,718.49

Gift Cap. . .      150,918.14      Coll. Sal. . .      1,883.00      7,718.49

Interest . . .      126,920.17      Eng. " . . .      45,757.00      7,718.49

Gr. Bus. Sal.      3,000.00      Gr. Bus. Sal.      3,000.00      7,718.49

Def't Sch. Arch.      4,960.51      Def't Sch. Arch.      4,960.51      7,718.49

Lands Arch.      11,714.65      Lands Arch.      11,714.65      7,718.49

Deficit B. I.      1,266.13      Deficit B. I.      1,266.13      7,718.49

U. Ex. . . .      56,295.23      U. Ex. . . .      56,295.23      7,718.49

To restore Fd.      1,266.13      To restore Fd.      1,266.13      7,718.49

Interest . . .      24,585.16      Interest . . .      24,585.16      7,718.49

Henry T. Morgan (1883), . . . . . 24,585.16      Pt Def't Univ.      16,688.16      2,663,164.15

Coll. & Lib.      16,688.16      Coll. & Lib.      16,688.16      2,663,164.15

Pt Def't Sch.      26,507.97      Pt Def't Sch.      26,507.97      2,663,164.15

Engin. & Min.      811.12      Engin. & Min.      811.12      2,663,164.15

U. Ex. . . .      1,698.60      U. Ex. . . .      1,698.60      2,663,164.15

" . . .      2,698.60      " . . .      2,698.60      2,663,164.15

F. & G. Sp. .      1,000.00      F. & G. Sp. .      1,000.00      2,663,164.15

U. Ex. . . .      9,347.08      U. Ex. . . .      9,347.08      2,663,164.15

To restore Fd.      20,994.41      To restore Fd.      20,994.41      2,663,164.15

Interest . . .      206.81      Interest . . .      206.81      2,663,164.15

Amounts carried forward, \$5,573,364.34      " . . .      206.81      2,663,164.15

21      " . . .      206.81      2,663,164.15

22      " . . .      206.81      2,663,164.15

23      " . . .      206.81      2,663,164.15

24      " . . .      206.81      2,663,164.15

# UNIVERSITY FUNDS (continued)

	Principal, July 1, 1917	Receipts	Expenditures	Suspense June 30, 1918	Principal, June 30, 1918	Totals
Amounts brought forward, \$5,578,864.34					\$6,172,679.27	
William Perkins (1888), . . . . .	30,000.00	Interest . . . \$1,545.00	U. Ex. . . . \$1,545.00	.....	30,000.00	
Henry L. Pierce (1898), . . . . .	50,000.00	" . . . 2,575.00	Lib. G. Ex. . . 2,575.00	.....	50,000.00	
Henry L. Pierce (Residuary) (1898), 157,198.14		To restore Fd. 48,976.82	" . . . 2,369.02			
		Interest . . . 7,107.07	M. C. Z. . . . 4,788.05			
			Pt Deft Univ.			
			Coll. & Lib. 16,638.17			
			Pt Deft			
President's (1888), . . . . .	64,560.70	" . . . 3,324.89	Engin. & Min. 26,507.97	.....	162,428.82	
Retiring Allowance (1879), . . . . .	405,423.18	" . . . 20,879.23	U. Sal. . . . 3,320.00	.....	64,565.59	
Riverside (1903), . . . . .	11,000.00	.....	F. & G. Sp. . 15,556.05	.....	410,745.36	
Ezekiel Rogers (1701), . . . . .	3,535.00	" . . . 182.05	U. Ex. . . . 182.05	.....	3,535.00	
Daniel Russell (1679), . . . . .	1,514.00	" . . . 77.97	" . . . 77.97	.....	1,514.00	
John L. Russell (1889), . . . . .	28,370.03	" . . . 1,203.56	" . . . 1,203.56	.....	28,370.03	
Mary R. Searle (1903), . . . . .	1,860.45	" . . . 95.79	Fogg M. Sp. Ex. 96.64	.....	1,869.60	
Isaac Sweetser (1894), . . . . .	46,913.13	" . . . 2,416.02	U. Ex. . . . 2,416.02	.....	46,913.13	
Seth Turner (1888), . . . . .	5,000.00	" . . . 267.50	" . . . 267.50	.....	5,000.00	
William F. Weld (1893), . . . . .	100,000.00	" . . . 8,212.35	" . . . 8,212.35	.....	100,000.00	
Gifts for trees:						
E. B. Adams, . . . . .	150.00	.....	.....		150.00	
Class of 1893, . . . . .	50.00	.....	.....		50.00	
Class of 1898, . . . . .	.....	.....	U. Sp. Ex. . . 65.00	Dr. 65.00	.....	
A. O. Coolidge, . . . . .	150.00	.....	.....		150.00	
Mrs. Edward F. Greene, . . . . .	25.00	.....	.....		25.00	
Robert L. McCook, . . . . .	590.42	" . . . 21.25	" . . . 65.00		546.97	

Gift for legal expenses in replanting trees,	.....	Gift . . . .	45.00	U. Sp. Ex. .	45.00	.....
Gift for expenses development plan of University, . . . . .	294.58	.....	.....	" "	314.46	Dr. 89.88
Gift for equipment of University Div- rectory, . . . . .	.....	"	500.00	"	500.00	.....
Gifts for Harvard Univ. Press, . . . .	.....	Gifts . . . .	1,500.00	"	.....	.....
Gifts for Harvard Bureau American University Union in Europe, . . . .	.....	Other receipts	4.00	"	1,504.00	.....
	.....	"	1,255.00			
	.....	Interest . . .	14.06			
Gift for Expenses of Reserve Officers' Training Corps, . . . . .	.....	Other receipts	1,350.00	F. & G. Sp. .	1,194.69	1,394.37
Gifts for War Activities Fund, . . . .	.....	Gift . . . .	1,092.54	"	694.00	468.54
	.....	Gifts . . . .	66,326.43			
	.....	Interest . . .	110.18	"	8,301.18	58,385.43
Gift for Expenses War Records Office,	.....	Gift . . . .	1,117.13	U. Sp. Ex. .	1,117.13	.....
Gift for general purposes, . . . . .	.....	"	300.00	"	300.00	.....
						\$7,144,680.81

#### COLLEGE FUNDS

John W. P. Abbot (1874), . . . .	\$18,238.16	Interest . .	\$989.25	.....	\$19,177.41
Alford Professorship (1765), . . . .	28,047.13	"	1,444.42	.....	29,491.55
Thomas J. Allen (1914), . . . .	30,105.00	"	1,550.41	Coll. G. Ex. .	30,105.00
Percy Lee Atherton Gift (1915), . .	10,438.49	"	537.04	" Sal. . .	10,715.53
Daniel Austin (1879), . . . .	7,806.86	"	402.06	Lib. G. Ex. .	7,806.86
William H. Baldwin, Jr., 1885 (1906), . . . . .	5,588.96	"	287.83	Trans. to Harv.	5,588.96
John B. Barringer (1878), . . . .	30,686.85	"	1,580.88	Ec. Studies .	30,686.85
				Coll. Sal. . .	.....
Amounts carried forward, \$6,505,839.43 . . . . .				.....	\$133,572.16
					\$7,144,680.81

# COLLEGE FUNDS (continued)

	<i>Principal, July 1, 1917</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense</i>	<i>Principal, June 30, 1918</i>	<i>Totals</i>
Amounts brought forward, \$6,605,829.42					\$188,572.16	\$7,144,690.81
Louise E. Bettens (1915), . . . .	20,241.91	Gift . . . . \$300.00				
		Interest . . . . 1,042.46	Coll. Sp. Ex. \$1,500.00		20,084.37	
Robert Charles Billings, for						
Gray Herbarium (1903), . . . .	15,000.00	" . . . . 772.50	Gray Herb. . . . 772.50		15,000.00	
John A. Blanchard (1873), . . .	1,060.00	" . . . . 54.08	Coll. G. Ex. . . . 54.08		1,060.00	
Botanic Department (1880), . . . .	39,780.00	" . . . . 2,048.67	" Sp. " . . . . 788.95		39,780.00	
			Bot. Garden . . . . 1,260.42			
Boylston Professorship (1772), . . .	28,337.40	" . . . . 1,459.35	Coll. Sal. . . . 1,459.35		28,337.40	
Charles Osmyn Brewster (1912), . .	10,246.79	" . . . . 527.72	" Sp. Ex. . . . 600.00		10,174.51	
Classical Publication Fund of the						
Class of 1856 (1888), . . . .	7,179.37	" . . . . 369.72	" " " . . . . 372.60	Dr. 2.88	7,179.37	
Twenty-fifth Anniversary Funds:						
Class of 1880 (1905), . . . .	108,669.41	" . . . . 5,338.95	" Sal. . . . 5,338.95		108,669.41	
Class of 1884 (1909), . . . .	100,099.91	" . . . . 5,155.15	" G. Ex. . . . 5,155.15		100,099.91	
Class of 1885 (1910), . . . .	111,840.00	" . . . . 5,759.76	" " " . . . . 5,759.76		111,840.00	
Class of 1886 (1911), . . . .	100,000.00	" . . . . 5,150.00	" " " . . . . 5,150.00		100,000.00	
Class of 1887 (1912), . . . .	100,000.00	" . . . . 5,150.00	" " " . . . . 5,150.00		100,000.00	
Class of 1883 Special Fund (1908), .	376.23	" . . . . 19.86	" " " . . . .		395.58	
Class Subscription (1870), . . . .	150,637.54	" . . . . 7,757.86	" Sal. . . . 7,757.86		150,637.54	
Edward W. Codman (1905), . . . .	390,378.34	" . . . . 17,898.06	" G. Ex. . . . 17,898.06		390,378.34	
Helen Collamore Bequest, Gray						
Herbarium (1916), . . . .	1,515.00	" . . . . 78.02	Gray Herb. . . . 78.02		1,515.00	

**T. Jefferson Coolidge, for Research in Physics (1901), . . . .**

	18,065.37	Gift . . . .	3,550.00						
		Interest . . .	980.35	Coll. Sp. Ex.	3,986.67				18,558.95
<b>George G. Crocker (1913), . . .</b>	5,000.00	" . . . .	257.50	" G. "	257.50				5,000.00
<b>Ernest B. Dane in Physics (1913),</b>	52,500.94	" . . . .	2,100.04	" Sp. "	1,346.82				53,847.16
<b>Paul Dudley (1751), . . . . .</b>	4,887.41	" . . . .	251.68	F. & G. Sp. .	170.00				4,969.09
<b>Alexis Irenée Du Pont (1917), .</b>	98,000.00	" . . . .	4,997.50						97,997.50
<b>Eaton Professorship (1908), . . .</b>	115,000.57	" . . . .	5,922.55	Coll. Sal. . .	5,500.00				115,428.13
<b>Eliot Professorship (1814), . . . .</b>	21,619.50	" . . . .	1,113.88	" " "	1,113.88				21,619.50
<b>Eliot Professorship (Jonathan Phillips's gift) (1854), . . . . .</b>	10,000.00	" . . . .	350.00	" " "	350.00				10,000.00
<b>Erving Professorship (1791), . . .</b>	3,500.01	" . . . .	180.25	" " "	180.25				3,500.01
<b>William Everett (1918), . . . . .</b>	.....	Gift Cap. . .	4,112.00						4,112.00
<b>Fisher Professorship (1834), . . .</b>	41,703.76	Interest . . .	2,147.76	" " "	2,147.76				41,703.76
<b>Henry Flynt (1760), . . . . .</b>	486.13	" . . . .	22.45	" " "	22.44				486.14
<b>Fund for Permanent Tutors (1796),</b>	16,240.38	" . . . .	886.36	" " "	886.36				16,240.38
<b>Fund for Religious Services (1887),</b>	1,083.57	" . . . .	53.25	Ap. Chap. .	53.25				1,083.57
<b>George A. Gardner (1893), . . .</b>	5,500.00	" . . . .	283.25	Coll. Sp. Ex.	265.36	Cr. 17.89			5,500.00
<b>Wolcott Gibbs Memorial Endowment (1913), . . . . .</b>	25,008.58	" . . . .	1,287.96						
		Other receipts	278.74	" " "	2,304.17	Dr. 246.16			24,517.37
<b>Goodkin Lectures (1908), . . . . .</b>	18,656.63	Interest . . .	960.84						19,617.47
<b>Gospel Church (1868), . . . . .</b>	9,069.28	" . . . .	467.05	Sal. . .	288.52				9,297.81
<b>Assa Gray Memorial (1898), . . .</b>	33,111.00	" . . . .	1,705.22	Gray Herb. .	1,705.22				33,111.00
<b>Assa Gray Professorship of Systematic Botany (1897), . . . . .</b>	21,451.25	" . . . .	1,104.73	" " "	1,104.73				21,451.25

Amounts carried forward, \$8,311,965.59 . . . . . \$1,751,156.57 \$7,144,630.81

# COLLEGE FUNDS (continued)

	Principal, July 1, 1917	Receipts	Expenditures	Suspense June 30, 1918	Principal, Totals
Amounts brought forward, \$8,211,965.59					\$1,751,156.57 \$7,144,680.81
Gurney (1868), . . . . .	200,096.86	Interest . . \$10,306.00	Coll. Sal. . . \$9,806.00		
			Annuities . . 500.00	.....	200,096.86
George Silsbee and Ellen Sever					
Hale (1904), . . . . .	6,089.06	" . . . 311.01	Trans. to Lib. 311.01	.....	6,089.06
Harvard Foundation for Exchanges					
with French Universities (1912), . .	84,083.94	" . . 1,755.33	U. Sp. Ex. . 600.00	.....	85,239.27
Harvard Oriental Series (1899), . . .	15,014.52	" . . 773.27	Coll. Sp. Ex. 787.79	.....	15,000.00
Herbarium (1865), . . . . .	20,655.91	" . . 1,063.78	Gray Herb. . 1,063.78	.....	20,655.91
Hersey Professorship (1772), . . . .	20,217.08	" . . 1,041.18	Coll. Sal. . . 624.71	.....	20,217.08
			Med. " . . 416.47	.....	
Hersey Professorship (Thomas					
Lee's gift) (1856), . . . . .	21,744.18	" . . 1,119.82	Coll. Sal. . . 1,119.82	.....	21,744.18
Richard Hodgson Memorial (1912),	13,494.28	" . . 694.99	" Sp. Ex. 115.54	.....	14,073.68
Albert Fairchild Holden Bequest					
(1917), . . . . .	2.52	.....	.....	.....	2.52
Rose Hollingsworth (1916), . . . .	500.00	" . . 25.75	Gray Herb. . 25.75	.....	500.00
Hollis Professorship of Mathematics,	3,747.33	" . . 192.97	Coll. Sal. . . 192.97	.....	3,747.33
Composed of these Funds :—					
Thomas Brattle (1718),					
William Dummer (1762),					
Daniel Henchman (1758),					
Thomas Hollis (1726),					
Charles W. Hubbard (1917), . . . . .	.....	Gift Cap. . . 10,000.00		.....	10,250.00
		Interest . . . 250.00		.....	

# **John E. Hudson Professorship in**

Archaeology (1917), . . . . .	145,733.50	Interest . . .	7,505.30	Coll. Sal. . .	4,000.00	.....	149,238.80
Ingersoll Lecture (1894), . . . . .	7,583.53	" . . .	390.58	F. & G. Sp. .	350.00	.....	7,624.11
Gardiner M. Lane Bequest (1914),	1,505.67	" . . .	77.56	Coll. Sp. Ex.	73.75	.....	1,509.48
Abbott Lawrence (1859), . . . . .	61,536.48	" . . .	3,169.10	" Sal. . .	1,881.38	.....	61,739.10
James Lawrence (1865), . . . . .	50,375.00	" . . .	2,594.31	Engin. " . .	1,584.55	.....	50,541.54
George H. Leatherbee Lecture				Coll. " . .	1,180.63	.....	57,990.15
Fund (1913), . . . . .	55,149.70	" . . .	2,840.45	Engin. " . .	1,297.15	.....	16,149.00
Lectures on Political Economy (1889), .	14,407.04	" . . .	741.96			.....	15,796.97
Lee Fund for Reading (1868), . . . . .	15,796.97	" . . .	813.55	Coll. Sal. . .	813.55	.....	118,501.62
Henry Lee Professorship (1900), . . .	112,697.67	" . . .	5,808.95			.....	12,402.38
Solomon Lincoln Bequest (1911), . . .	11,964.77	" . . .	616.20			.....	1,000.00
Calvin Stoughton Locke (1915), . . .	1,000.00	Sales . . .	93.45	" Sp. Ex.	271.54	.....	497,350.91
Morris Loeb Bequest (1914), . . . . .	496,467.31	Interest . . .	51.50	" " "	51.50	.....	8,152.57
Joseph Lovering for Physical Re-		" . . .	23,717.94	Annuity . . .	21,894.24	.....	69,074.76
search (1891), . . . . .	7,753.29	" . . .	399.28			.....	23,393.98
Lowell Fund for a Botanic Garden						.....	60,000.00
(1892) formerly Professorship of						.....	29,727.46
Natural History, 1805), . . . . .	69,074.76	" . . .	3,557.36	Bot. Garden .	3,557.36	.....	\$3,276,854.78
Woodbury Lowery Memorial						.....	\$7,144,680.81
(1910), . . . . .	21,289.17	" . . .	1,098.81			.....	
Arthur T. Lyman (1904), . . . . .	60,000.00	" . . .	3,090.00	Coll. Sal. . .	3,090.00	.....	
Charles Nicholas McCall Fund						.....	
(1912), . . . . .	29,727.46	" . . .	1,530.94	" " "	1,530.94	.....	
Amounts carried forward,	\$9,709,573.38	.....	.....	.....	.....	.....	

# COLLEGE FUNDS (continued)

	Principal, July 1, 1917	Receipts	Expenditures	Suspense June 30, 1918	Totals
Amounts brought forward, \$9,709,578.38					\$9,709,578.38
McLean Professorship (1884), . . .	48,062.98	Interest . . . \$2,217.74	Coll. Sal. . . \$2,217.74		48,062.98
Maria E. McMaster Bequest (1917), . . . . .		Gift Cap. . . 6,859.98			
		Interest . . . 808.90			7,168.88
Matchett Fund (1918), . . . . .	325,000.00	" . . . 16,787.50	G. Ex. . 16,787.50		325,000.00
Emily H. Moir Bequest (1914), . . . . .	45,401.00	Cap. Gain . . 1,600.00			
		Interest . . . 2,506.46	" " 2,506.46		47,001.00
Music Building Maintenance Fund					
(1911), . . . . .	58,960.82	" . . . 2,778.99	" Sp. " 1,961.62		54,778.19
Music Department (1908), . . . . .	316.56	" . . . . .	" " 2.00		314.56
James J. Myers (1916), . . . . .	102,688.17	" . . . 5,288.17	Annuities . . 7,000.00		100,971.84
John Newgate (1850), . . . . .	388.88	" . . . 17.15	Div. Sch. G. Ex. 17.15		388.88
William Belden Noble Lectures (1898), . . . . .	30,485.45	" . . . 1,569.98			
		Sales . . . . .94	F. & G. Sp. . 1,001.86		31,055.01
Trenor L. Park Bequest (1911), . . . . .	21,914.79	Interest . . . 1,128.62	Coll. G. Ex. . 1,128.62		21,914.79
Francis Greenwood Peabody Fund (1905), . . . . .	111,816.80	" . . . 5,782.77	" Sal. . . 2,299.89		
		" . . . . .	" Sp. Ex. 1,855.88		118,298.80
Daniel H. Peirce (1876), . . . . .	15,125.28	" . . . 778.94	" Sal. . . 701.05		15,208.13
Perkins Professorship (1841), . . . . .	22,071.00	" . . . 1,186.66	" " 1,186.66		22,071.00
Jonathan Phillips (1861), . . . . .	31,500.00	" . . . 1,622.25	G. Ex. . 1,622.25		31,500.00
Physical Laboratory Endow'm't (1881), . . . . .	75,000.00	" . . . 3,862.50	" Sp. " 3,862.50		75,000.00
Plummer Foundation (1854), . . . . .	26,296.21	" . . . 1,854.24	Div. Sal. . . 1,854.24		26,296.21

Pope Professorship (1868), . . . . .	52,500.00	Interest . . .	2,708.75	Coll. Sal. . .	2,708.75	.....	52,500.00
Sarah E. Potter Endowment (1907), . . . . .	201,490.88	" . . .	10,876.74	Gray Herb. .	10,876.74	.....	201,490.88
Professorship of Hygiene (1899), . . . . .	251,438.95	" . . .	12,904.11	Coll. Sal. . .	4,000.00	.....	252,843.06
" " (1902), . . . . .	61,897.91	" . . .	2,187.75	Annuity . . .	8,000.00	.....	65,085.66
" " (1908), . . . . .	64,385.95	" . . .	3,818.80	.....	.....	.....	67,649.25
Professorship of Latin-American History and Economics (1918), . . . . .	125,418.85	" . . .	6,459.08	Coll. Sal. . .	850.00	.....	129,098.98
General Publication Fund (1912), . . . . .	6,856.58	" . . .	353.11	Lib. Books .	1,929.00	.....	8,309.57
Nelson Robinson, Jr. Additional (1906), . . . . .	183,511.84	Interest . . .	488.37	" Sal. . .	1,000.00	.....	181,596.05
Eliza O. and Mary P. Ropes (1909), . . . . .	121,864.24	" . . .	5,881.78	" Sp. Ex. .	1,414.16	.....	121,864.24
Josiah Royce Memorial (1918), . . . . .	.....	Gifts Cap. . .	3,400.00	" Sal. . .	5,000.00	.....	2,431.21
Rumford Professorship (1819), . . . . .	62,565.99	Interest . . .	21.21	Peab. M.G. Ex.	881.73	.....	62,565.99
John L. Russell (1889), . . . . .	2,000.00	" . . .	8,222.15	Coll. Sal. . .	8,222.15	.....	2,000.00
George William Sawin (1890), . . . . .	7,760.38	" . . .	108.00	Bot. Garden .	25.75	.....	8,160.02
Robert W. Sayles (1906), . . . . .	5,269.55	" . . .	399.64	Gray Herb. .	77.25	.....	5,426.56
Shaler Memorial (1907), . . . . .	36,072.72	" . . .	271.41	Coll. Sp. Ex.	114.40	.....	37,223.88
Smith Professorship (1816), . . . . .	23,139.83	" . . .	1,857.76	" " "	707.10	.....	23,139.83
William M. Spackman (1906), . . . . .	2,500.00	" . . .	1,191.71	" Sal. . .	1,191.71	.....	2,500.00
Amounts carried forward, \$11,822,643.84	.....	" . . .	138.75	" G. Ex. .	138.75	.....	\$5,416,128.07
							\$7,144,630.81

# COLLEGE FUNDS (continued)

	Principal, July 1, 1917	Receipts	Expenditures	Suspense	Principal, June 30, 1918	Totals
Amounts brought forward, \$11,822,648.84 . . . . .					\$5,416,128.07	\$7,144,680.81
<b>Henry Baldwin Stone Memorial</b>						
(1914). . . . .	53,460.00	Interest . . . \$3,800.00	Coll. G. Ex. \$3,800.00	.....	53,460.00	
Teachers' Endowment (1906), . . . . .	2,053,573.91	Gift Income 400.00				
		Interest . . 104,686.56	" Sal. . 103,086.56			
			Sem. Mus. . 2,000.00		2,053,573.91	
<b>John E. Thayer (1885), . . . . .</b>	16,491.60	" . . . 849.34		.....	16,353.70	
		Sales . . . 2,375.80	F. & G. Sp. . 3,268.04			
<b>Henry Warren Torrey (1890), . . . . .</b>	10,000.00	Interest . . . 515.00				
		Sales . . . 367.08	Coll. Sp. Ex. 197.57	Cr. \$684.46	10,000.00	
<b>Unknown Memorial (1898), . . . . .</b>	100,000.00	Interest . . . 5,150.00	" Sal. . . 3,350.00	.....	100,000.00	
			" Sp. Ex. 1,800.00	.....	50,000.00	
<b>Henry Villard (1902), . . . . .</b>	50,000.00	" . . . 4,106.36	" Sal. . . 4,106.36	.....	50,000.00	
<b>Wales Professorship (1903), . . . . .</b>	39,540.20	" . . . 2,036.31	" " . . 1,736.31	.....	39,540.20	
			Trans. to Lib. 300.00	.....	25,335.59	
<b>Samuel Ward (1890), . . . . .</b>	24,206.78	" . . . 1,246.61	Coll. B. F. . 117.80	.....	7,562.72	
<b>Cyrus M. Warren (1893), . . . . .</b>	7,192.33	" . . . 370.39	" . . . . .	.....	121,569.90	
<b>Henry O. Warren (1899), . . . . .</b>	121,885.06	" . . . 6,277.08	" Sal. . . 3,763.69	.....	11,457.74	
			" Sp. Ex. 2,828.55	.....	50,929.64	
<b>Sylvester Waterhouse (1896), . . . . .</b>	10,896.54	" . . . 561.20		.....	221.55	
<b>Increase Sumner Wheeler (1889), . . . . .</b>	50,219.27	" . . . 2,586.28	Ap. Chap. . . 1,975.91	.....	75,000.00	
<b>Jerome Wheelock (1903), . . . . .</b>	200.89	Gift Cap. . . 10.00		.....		
		Interest . . . 10.66		.....		
<b>Edward Wheelwright (1915), . . . . .</b>	75,000.00	" . . . 3,862.50	Coll. G. Ex. . 3,862.50	.....		

Davies Wilson (1918), . . . . .	5,487.50	Interest . . .	280.01	Coll. G. Ex. .	280.01	.....	5,487.50
Morrill Wyman (1916), . . . . .	56,587.63	" . . .	2,914.28	" Sal. . .	1,500.00	.....	58,001.90
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GIFTS FOR SPECIAL USES (BALANCES)							
Gift for general purposes, . . . . .	.....	Gift . . . .	\$75.00	Coll. G. Ex. .	\$75.00	.....	.....
Gifts for salaries, . . . . .	\$3,227.55	" . . . .	20,628.35	" Sal. . .	21,848.35	.....	\$2,507.55
Gift of Evan Randolph, . . . . .	369.09	.....	.....	" Sp. Ex.	22.95	.....	346.14
Dept. of Botany — Gift for expenses	.....	Gifts . . . .	1,200.00	" " "	823.30	.....	376.70
Plant Physiology, . . . . .	.....	.....	.....	.....	.....	.....	.....
Dept. of Chemistry — Edward Mal-	.....	.....	.....	.....	.....	.....	.....
linckrodt Gift, . . . . .	.61	.....	.....	.....	.....	.....	.61
Dept. of Classics — Gifts for Depart-	.....	.....	.....	.....	.....	.....	.....
ment, . . . . .	614.78	Interest . . .	18.60	" " "	200.00	.....	483.38
2 Dept. of Classics — Haynes Book	.....	.....	.....	.....	.....	.....	.....
Fund, . . . . .	196.73	.....	.....	.....	.....	.....	196.73
Dept. of Classics — Gift for Classical	.....	.....	.....	.....	.....	.....	.....
Library, . . . . .	.....	Gift . . . .	100.00	" " "	28.47	Cr. \$56.01	152.67
Dept. of Classics — George Gris-	.....	Sales . . . .	187.15	" " "	.....	.....	.....
wold Van Rensselaer Memorial	.....	.....	.....	.....	.....	.....	.....
Gift for Collection of Classical An-	.....	.....	.....	.....	.....	.....	.....
tiquities, . . . . .	1,350.36	Interest . . .	51.10	" " "	225.00	.....	1,176.46
Dept. of Economics — Gifts for Depart-	.....	.....	.....	.....	.....	.....	.....
ment, . . . . .	487.84	Gifts . . . .	285.00	" " "	228.17	.....	554.48
.....	.....	Interest . . .	10.31	" " "	.....	.....	.....
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Amounts carried forward, \$14,508,581.45	.....	.....	.....	.....	.....	.....	\$6,744.67 \$15,239,108.28

# COLLEGE FUNDS (continued)

	<i>Principal, July 1, 1917</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense June 30, 1918</i>	<i>Principal, Totals</i>
Amounts brought forward, \$14,508,581.45					\$5,744.67 \$15,289,108.28
Dept. of Economics—Gifts for Books,	61.55	Transf. from Gift for Pol.			
		Econ. Lib. .	\$125.00 Coll. Sp. Ex.	\$12.84	174.31
Dept. of Economics—Gift for Political Economy Library, . . . . .	100.00		Tr. to Gifts for Books—Dept. Econ. . . .	100.00	
Dept. of Economics—Gift for Political Economy Library, . . . . .	25.00		Tr. to Gifts for Books—Dept. Econ. . . .		
Dept. of Economics—Books in Eco- nomics A, . . . . .	40.02			25.00	
Dept. of Economics—Economics 2 Book Fund, . . . . .	160.31	Sales . . . .	38.52 “ “	14.35	25.67
Dept. of Economics—Gift for Research in Public Finance, . . . . .	766.78	Interest . . .	10.76 “ “	4.88	198.95
Dept. of Economics—Gift for Research in Taxation, . . . . .	188.11			689.12	88.42
Dept. of Economics—Harvard Eco- nomic Studies, . . . . .		Sales . . . .		138.00	5.11
		Trans. from W. H. Bald- win Fd. . . .			
		1,413.08			
		287.83	“ “	1,889.63	Cr. 311.26

Dept. of Economics — Gift for lectures,	100.00	.....	.....	.....	100.00
Dept. of Education — Gift for Books, .	85.00	.....	Coll. Sp. Ex.	35.00	.....
Dept. of Education — Gift for Special Services in department library . . .	50.00	Gifts . . . .	1,500.00	" "	794.40
Dept. of Education — Gifts for Bureau of Vocational Guidance, . . . . .	.....	" . . . .	11,075.00		
		Interest . . .	44.85		
		Other receipts	1,862.87	" "	8,698.05
Dept. of Education — Gift to increase the salary of a clerical assistant, . .	.....	Gift . . . .	300.00	" "	68.00
Dept. of Education — Library Fine Money, . . . . .	.....	Fines . . . .	10.75	.....	10.75
Dept. of English — English A Fund, .	12.81	Sales . . . .	580.80	" "	507.73
Dept. of English — Gift for Publishing Expenses . . . . .	1,023.16	Interest . . .	40.93	.....	1,064.09
Dept. of Fine Arts — Gifts for Fund for Lecturers, . . . . .	31.01	.....	" "	31.01	.....
Dept. of Fine Arts — Gift for lantern, .	23.17	.....	" "	1.43	21.74
Dept. of Fine Arts — Gift for photographs and slides in Fine Arts 1c, . .	263.24	.....	" "	26.26	286.98
Dept. of Fine Arts — Gift for slides and photographs in Drawing Courses, . .	119.71	.....	.....	.....	119.71
Dept. of French and other Romance Languages — Dept. Library, . . . .	27.94	.....	" "	4.48	23.46
Amounts carried forward, \$14,506,554.26					\$12,497.21
					\$15,289,108.23

# COLLEGE FUNDS (continued)

	<i>Principal, July 1, 1917</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense June 30, 1918</i>	<i>Principal, June 30, 1918</i>	<i>Totals</i>
Amounts brought forward, \$14,506,554.36					\$12,497.21	\$15,389,108.23
Dept. of French and other Romance Languages—Gift for Experimental Phonetics, . . . . .	78.08	.....	.....	.....	78.08	
Dept. of Geology—Gift for Special Fund in Economic Geology, . . . .	89.97	Gifts . . . \$1,250.00	Coll. Sp. Ex. \$1,194.74	.....	205.23	
Dept. of Geology—Gift for salary of laboratory assistant, . . . . .	.....	Gift . . . . 200.00	" " 166.75	.....	33.25	
Dept. of Geology—Gift for Expenses of Visiting Professors, . . . . .	11.59	.....	.....	.....	11.59	
Dept. of Government—Gifts for Bureau of Research in Municipal Government, . . . . .	1,370.84	Gifts . . . . 2,500.00				
		Interest . . . 21.88				
		Sales . . . . 5.10	" " 2,771.69	.....	1,126.13	
Dept. of Government—Frank Graham Thomson Gift, . . . . .	6,711.50	Interest . . . 151.27	" " 8,738.38	.....	8,129.44	
Dept. of Government—Gift for expenses in Government 1, . . . . .	28.84	Gift . . . . 25.00	" " 23.40	.....	30.44	
Dept. of Government—Gift for books on School Administration, . . . . .	28.84	.....	.....	.....	28.84	
Dept. of Government—Gifts for Publishing Expenses, . . . . .	916.50	Interest . . . 27.30	" " 470.37	.....	478.43	
Dept. of History—F. P. Bonney Gift, . . . . .	8.48	.....	.....	.....	8.48	

Dept. of History — History 1 Book Ed.,	692.81	Interest . . .	18.15				
		Sales . . .	268.74	Coll. Sp. Ex.	82.39		887.31
Dept. of History — Gift Expenses Harvard Commission on Western History,	462.19	Gifts . . .	1,000.00				
		Interest . . .	20.60	" "	525.30		957.59
Dept. of Mathematics — Gift for Department,	30.00						30.00
Dept. of Mathematics — Mathematics Book Fund,	212.61	Sales . . .	69.29	" "	16.71		265.19
Dept. of Military Science — Gift for developing phototopography,		Gift . . .	500.00	" "	116.49		388.51
Dept. of Mineralogy — Gift for working tourmaline deposit in Maine,	662.76	Interest . . .	18.77	" "	50.10		681.48
Gifts for Dept. of Music,	71.43	Gifts . . .	1,245.00				
		Other receipts	152.47	" "	1,468.90		
Dept. of Philosophy — Books on Eugenics,	15.49			" "	2.18		18.31
Dept. of Philosophy — Philosophical Library Gifts,	289.93			" "	34.21		265.72
Dept. of Philosophy — Gift for Professorship of Japanese Literature,	428.12	Interest . . .	16.92				440.04
Dept. of Philosophy — Gift for Special Use at Psychological Laboratory,	27.66						27.66
Dept. of Physics — Gift for salary of laboratory assistant,	768.26	Gift . . .	200.00				
		Interest . . .	12.82	" "	294.80		686.28
Amounts carried forward, \$14,519,449.61							\$22,194.61 \$15,289,108.28

# COLLEGE FUNDS (continued)

	Principal, July 1, 1917	Receipts	Expenditures	Suspense June 30, 1918	Principal June 30, 1918	Totals
Amounts brought forward, \$14,506,554.26					\$12,497.21	\$15,389,108.23
Dept. of French and other Romance Languages—Gift for Experimental Phonetics, . . . . .	78.08	.....	.....	.....	78.08	
Dept. of Geology—Gift for Special Fund in Economic Geology, . . . .	89.97	Gifts . . . \$1,250.00	Coll. Sp. Ex. \$1,184.74	.....	205.23	
Dept. of Geology—Gift for salary of laboratory assistant, . . . . .	.....	Gift . . . . 200.00	" " 166.75	.....	33.25	
Dept. of Geology—Gift for Expenses of Visiting Professors, . . . . .	11.59	.....	.....	.....	11.59	
Dept. of Government—Gifts for Bureau of Research in Municipal Government, . . . . .	1,370.84	Gifts . . . . 2,500.00				
		Interest . . . 21.88				
		Sales . . . . 5.10	" " 2,771.69	.....	1,126.13	
Dept. of Government—Frank Graham Thomson Gift, . . . . .	6,711.50	Interest . . . 151.27	" " 3,783.38	.....	3,129.44	
Dept. of Government—Gift for expenses in Government 1, . . . . .	28.84	Gift . . . . 25.00	" " 23.40	.....	30.44	
Dept. of Government—Gift for books on School Administration, . . . . .	23.84	.....	.....	.....	23.84	
Dept. of Government—Gifts for Publishing Expenses, . . . . .	916.50	Interest . . . 27.30	" " 470.37	.....	473.43	
Dept. of History—F. P. Bonney Gift, . . . . .	8.43	.....	.....	.....	8.43	

Dept. of History — History 1 Book Fd.,	693.81	Interest . . .	13.15				
		Sales . . .	268.74	Coll. Sp. Ex.	82.89		887.81
Dept. of History — Gift Expenses Harvard Commission on Western History,	462.19	Gifts . . .	1,000.00				
		Interest . . .	20.60	" "	525.20		957.59
Dept. of Mathematics — Gift for Department, . . . . .	30.00						30.00
Dept. of Mathematics — Mathematics Book Fund, . . . . .	212.61	Sales . . .	69.29	" "	16.71		265.19
Dept. of Military Science — Gift for developing phototopography, . . .		Gift . . .	500.00	" "	116.49		388.51
Dept. of Mineralogy — Gift for working tourmaline deposit in Maine, . . .	662.76	Interest . . .	18.77	" "	50.10		681.43
Gifts for Dept. of Music, . . . . .	71.43	Gifts . . .	1,245.00				
		Other receipts	152.47	" "	1,468.90		
Dept. of Philosophy — Books on Eugenics, . . . . .	15.49			" "	2.18		13.31
Dept. of Philosophy — Philosophical Library Gifts, . . . . .	289.93			" "	34.21		255.72
Dept. of Philosophy — Gift for Professorship of Japanese Literature, . .	493.12	Interest . . .	16.92				440.04
Dept. of Philosophy — Gift for Special Use at Psychological Laboratory, . .	27.66						27.66
Dept. of Physics — Gift for salary of laboratory assistant, . . . . .	768.26	Gift . . .	300.00				
		Interest . . .	12.32	" "	294.80		686.28
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Amounts carried forward, \$14,519,449.61							\$32,194.61 \$15,289,108.23

# COLLEGE FUNDS (continued)

	Principal, July 1, 1917	Receipts	Expenditures	Suspense	Principal, June 30, 1918	Totals
Amounts brought forward, \$14,519,449.61					\$22,194.61	\$15,239,108.28
Department of Sanskrit, . . . . .	4,190.09	Interest . . . \$167.60 Sales . . . . 174.19	..... ..... Coll. Sp. Ex. \$17.39	.....	4,581.88 147.15	
Dept. of Semitic—Gift Semitic Library,	164.54	.....				
Dept. of Social Ethics — Anonymous Gift, . . . . .	2,573.66	Interest . . . 102.95 Sales . . . . 18.98	.....	.....	2,695.59	
Dept. of Social Ethics — Gift for Pamphlet on Cottage Housing . . . . .	266.91	" . . . . 12.75	" " " 266.91	.....	12.75	
Dept. of Social Ethics — Gift for furnishing rooms, . . . . .	51.24	.....	.....	.....	* 51.24	
Dept. of Social Ethics — Library Gifts, . . . . .	228.99	.....	" " " 13.76	.....	215.23	
Dept. of Zoology—Bermuda Biological Station, . . . . .	1,243.60	Gifts . . . . 1,625.00 Grant from Sheldon Fund 1,200.00				
		Interest . . . 19.56	" " " 2,201.17	.....	1,886.99	
		Gifts . . . . 6,362.57	" " " 6,362.57	.....		
Gifts for Expenses of Military Training, . . . . .						
Gifts for binding collection of books sent to Southwark Public Library at London, . . . . .	75.00	.....	" " " .65	.....	74.35	
Committee on Economic Research, . . . . .		" . . . . 4,200.00	" " " 2,808.78	Cr. 2.50	1,998.72	88,208.51

**Victor Emanuel Chapman Memorial (1917), . . . . .**

		FELLOWSHIP							
		\$36,396.58	Gift Cap. . .	\$30.00					
			Interest . . .	1,259.30	Coll. Fell. .	\$1,204.50			\$26,881.38
Bayard Cutting (1910), . . . . .		26,440.67	" . . .	1,361.71					27,802.98
W. Bayard Cutting, Jr. Bequest (1910), . . . . .		14,004.46	" . . .	721.21					14,725.67
George W. Dillaway (1908), . . .		6,655.69	" . . .	842.78	" . . .	250.00			6,748.47
Ostas Goodwin Memorial (1889), .		12,395.05	" . . .	638.84	" . . .	575.00			12,458.89
William Watson Goodwin (1915),		18,546.04	" . . .	956.05	" . . .	600.00			18,909.09
Harris (1868), . . . . .		11,811.18	" . . .	608.27	" . . .	500.00			11,919.40
Edward William Hooper (1905), .		30,304.84	" . . .	1,560.71					31,865.55
John Thornton Kirkland (1871),		11,984.86	" . . .	617.23	" . . .	500.00			12,102.09
Henry Lee Memorial (1889), . . .		12,914.62	" . . .	665.12	" . . .	440.00			13,189.74
Elkan Naumburg (1911), . . . . .		12,602.16	" . . .	649.00	" . . .	525.00			12,726.16
Charles Eliot Norton (1901), . . .		20,830.36	" . . .	889.09					21,719.45
John Knowles Paine (1912), . . .		28,565.29	" . . .	1,233.27	Annuities .	1,245.00			28,563.56
Robert Treat Paine (1887), . . .		14,076.09	" . . .	724.91					14,801.00
John Parker (1873), . . . . .		69,765.74	" . . .	3,592.95	Coll. Fell. .	750.00			72,608.69
Francis Parkman (1906), . . . . .		10,847.98	" . . .	558.67					11,406.65
Princeton (1910), . . . . .		11,014.80	" . . .	567.27					11,582.07
Rogers (1869), . . . . .		36,478.06	" . . .	1,873.63					38,356.63
Henry Bromfield Rogers Memorial (1889), . . . . .		12,723.92	" . . .	655.29	" . . .	550.00			12,829.21
Sachs Research Fellowship in Fine Arts (1916), . . . . .		2,103.00	" . . .	84.12					2,187.12
Amounts carried forward, \$14,918,604.98									\$402,815.75
									\$15,272,806.74

# COLLEGE FUNDS (continued)

	Principal, July 1, 1917	Receipts	Expenditures	Suspense June 30, 1918	Principal, June 30, 1918	Totals
Amounts brought forward, \$14,918,604.98					\$409,815.75	\$15,372,806.74
Henry Russell Shaw (1912), . . . . .	40,641.88	Interest . . . \$3,093.06			49,734.94	
Social Ethics, . . . . .	106.13				106.13	
South End House (balance), . . . . .	65.95	Gifts . . . 185.00	Coll. Fell. . \$240.91		10.04	
Thayer (1887), . . . . .	89,059.81	Interest . . . 4,586.59	" " . 1,560.00			
John Tyndall (1885), . . . . .	13,379.67	" " . 689.07	" Sch. . 1,012.50		91,073.90	
James Walker (1881), . . . . .	12,277.12	" " . 632.26	" Fell. . 575.00		18,498.74	
Whiting (1896), . . . . .	26,715.76	" " . 1,375.87	" " . 175.00		12,909.88	
					27,916.63	591,059.51

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## SCHOLARSHIP

Abbot (1863), . . . . .	\$4,144.31	Interest . . . \$213.42	Coll. Sch. . . \$175.00		\$4,132.73
Alford (1786), . . . . .	3,853.89	" " . 198.43			4,051.33
Anonymous Gift for Scholarship, . . . . .	60.00		" " . 150.00	Dr. \$90.00	
Bartlett (1881), . . . . .	5,601.96	" " . 288.50	" " . 250.00		5,640.46
Matthew and Mary E. Bartlett Memorial (1916), . . . . .	19,469.60	" " . 1,002.70	" " . 425.00		
Bassett (1876), . . . . .	5,995.46	" " . 308.74	Med. " . 425.00		19,622.80
Bigelow (1865), . . . . .	14,781.98	" " . 768.70	Coll. " . 270.00		6,084.20
Samuel A. Borden (1896), . . . . .	4,812.95	" " . 247.87	" " . 600.00		14,890.68
Bowditch (1864), . . . . .	121,034.81	" " . 6,233.25	" " . 200.00		4,860.32
Bright (balance), . . . . .	6,485.67	" " . 324.08	" " . 4,290.00		122,977.56
		Trans. from Fd. 1,204.17	" " . 1,000.00		7,038.87

<b>Addison Brown (1914), . . . . .</b>	<b>7,799.60</b>	<b>Interest . . .</b>	<b>401.70</b>	<b>Coll. Sch. . .</b>	<b>325.00</b>	<b>7,876.30</b>
<b>Browne (1887), . . . . .</b>	<b>4,385.94</b>	<b>" . . .</b>	<b>238.80</b>	<b>" " . .</b>	<b>175.00</b>	<b>4,384.24</b>
<b>Morey Willard Buckminster</b>						
(1898), . . . . .	5,899.81	" . . .	308.85	" " . .	250.00	5,953.66
<b>Burr (1895), . . . . .</b>	<b>37,284.47</b>	<b>" . . .</b>	<b>1,930.13</b>	<b>" " . .</b>	<b>1,400.00</b>	<b>37,804.60</b>
<b>Francis H. Burr 1909 Fund (1913),</b>	<b>8,985.71</b>	<b>" . . .</b>	<b>480.19</b>	<b>" " . .</b>	<b>275.00</b>	<b>9,395.90</b>
<b>Ruloff Sterling Choate (1884), .</b>	<b>6,627.93</b>	<b>" . . .</b>	<b>341.84</b>	<b>" " . .</b>	<b>150.00</b>	<b>6,894.27</b>
<b>George Newhall Clark (1906), .</b>	<b>10,733.53</b>	<b>" . . .</b>	<b>537.80</b>	<b>" " . .</b>	<b>235.00</b>	<b>11,131.33</b>
<b>Thomas William Clarke (1911), .</b>	<b>5,269.30</b>	<b>" . . .</b>	<b>271.35</b>	<b>" " . .</b>	<b>400.00</b>	<b>5,315.65</b>
<b>Class of 1802 (1870), . . . . .</b>	<b>9,220.21</b>	<b>" . . .</b>	<b>474.88</b>	<b>" " . .</b>	<b>150.00</b>	<b>9,295.04</b>
" 1814 (1853), . . . . .	3,530.98	" . . .	181.85	" " . .	300.00	3,562.78
" 1815 (Kirkland) (1862), .	7,362.13	" . . .	379.14	" " . .	150.00	7,441.27
" 1817 (1852), . . . . .	5,204.82	" . . .	268.07	" " . .	150.00	5,472.89
" 1828 (1882), . . . . .	3,558.65	" . . .	138.29	" " . .	235.00	3,591.94
" 1835 (1853), . . . . .	5,677.88	" . . .	292.41	" " . .	175.00	5,745.29
" 1841 (1871), . . . . .	5,791.02	" . . .	295.15	" " . .	600.00	5,851.17
" 1844 (1896), . . . . .	14,186.78	" . . .	672.13	" " . .	250.00	14,258.86
" 1852 (Dane) (1876), . . .	5,729.07	" . . .	295.04	" " . .	750.00	5,774.11
" 1856 (1885), . . . . .	17,608.38	" . . .	906.81	" " . .	235.00	17,765.19
<b>Scholarship Fund of the Class of</b>						
<b>1863 (1915), . . . . .</b>	<b>8,068.82</b>	<b>" . . .</b>	<b>415.04</b>	<b>" " . .</b>	<b>825.00</b>	<b>8,248.86</b>
<b>Class of 1867 (1886), . . . . .</b>	<b>7,552.51</b>	<b>" . . .</b>	<b>388.98</b>	<b>" " . .</b>	<b>825.00</b>	<b>7,616.49</b>
" 1877 (1902), . . . . .	5,734.14	" . . .	295.80	" " . .	275.00	6,039.44
" 1883 (1900), . . . . .	6,707.16	" . . .	345.41	" " . .	1.89	6,777.57
<b>Classical Department (Gift), . . . .</b>	<b>1.39</b>	<b>" . . .</b>	<b>1,358.11</b>	<b>Coll. Sp. Ex.</b>	<b>1,000.00</b>	<b>26,739.52</b>
<b>Clement Harlow Condell (1911),</b>	<b>26,371.41</b>	<b>" . . .</b>	<b>1,358.11</b>	<b>" Sch. . .</b>	<b>1,000.00</b>	<b>26,739.52</b>
<b>Amounts carried forward, \$15,506,161.47</b>						<b>\$411,990.81 \$15,868,366.25</b>

# COLLEGE FUNDS (continued)

	Principal, July 1, 1917	Receipts	Expenditures		Suspense	Principal, June 30, 1918	Totals
Amounts brought forward, \$15,506,161.47						\$411,990.81	\$15,868,866.25
Crowninshield (1877), . . . . .	13,890.01	Interest . . . \$689.58	Coll. Sch. . .	\$550.00	.....	13,539.59	
George and Martha Derby (1881),	5,872.95	" . . . 302.46	" . . .	.....	.....	6,175.41	
Julius Dexter (1892), . . . . .	7,086.09	" . . . 362.85	" . . .	300.00	.....	7,098.44	
Orlando W. Doe (1893), . . . . .	8,899.82	" . . . 175.10	" . . .	125.00	.....	8,449.92	
Edda Club (1911), . . . . .	650.15	" . . . 33.48	" . . .	.....	.....	683.63	
William Samuel Eliot (1875), . .	6,086.74	" . . . 310.90	" . . .	.....	.....	6,347.64	
George H. Emerson (1903), . . .	35,858.14	" . . . 1,846.69	" . . .	728.66	.....		
Joseph Eveleth (1896), . . . . .	46,051.51	" . . . 2,371.68	B. I. " . .	200.00	.....	38,778.17	
		" . . . 2,371.68	Coll. " . .	600.00	.....		
		" . . . 360.56	Arch. Sch. .	66.66	.....		
		" . . . 149.71	Engin. " . .	100.00	.....		
		" . . . 278.41	Med. " . .	600.00	.....	47,066.53	
Fall River (1893), . . . . .	2,907.49	" . . . 149.71	" . . .	.....	.....	2,067.20	
Farrar (1879), . . . . .	7,001.24	" . . . 360.56	Coll. " . .	300.00	.....	7,061.80	
George Fisher and Elizabeth Huntington Fisher (1908), . . .	5,405.84	" . . . 278.41	" . . .	200.00	.....	5,484.25	
Richard Augustine Gambrill (1890), . . . . .	12,602.78	" . . . 649.05	" . . .	.....	.....	13,251.83	
William Gaston (1915), . . . . .	5,251.41	" . . . 270.48	" . . .	.....	.....	5,521.84	
Charles Haven Goodwin (1899),	8,461.79	" . . . 485.79	" . . .	350.00	.....	8,547.58	
Greene (1868), . . . . .	5,017.80	" . . . 258.39	" . . .	200.00	.....	5,075.69	
Price Greenleaf (balance), . . . .	525.30	" . . . 27.04	" . . .	.....	.....	1,452.84	
		Trans. from Fd. 3,000.00	" . . .	2,100.00	.....		

Thomas Hall (1912), . . . . .	11,250.97	Interest . . .	579.48	Coll. Sch. . .	450.00	.....	11,390.40
N. P. Hallowell '61 Memorial (1915),	5,601.75	" . . .	288.50		.....	.....	5,890.25
Selwyn L. Harding Scholarship							
of the Class of 1886 (1911), . . .	5,369.39	" . . .	271.35	" . .	225.00	.....	5,815.64
Harvard Club of Boston, . . . . .	51.88	Gift . . .	1,200.00	" . .	1,150.00	.....	101.88
" " Buffalo, . . . . .	.....	" . . .	200.00	" . .	200.00	.....	.....
" " Chicago, . . . . .	.....	" . . .	1,050.00	" . .	1,050.00	.....	.....
" " Cincinnati, . . . . .	.....	" . . .	750.00	" . .	750.00	.....	.....
" " Cleveland, . . . . .	.....	" . . .	750.00	" . .	850.00	Dr. 100.00	.....
" " Connecticut, . . . . .	.....	" . . .	200.00	" . .	200.00	.....	.....
" " Delaware, . . . . .	600.00	.....	.....	.....	.....	.....	600.00
" " Fall River, . . . . .	.....	" . . .	250.00	" . .	200.00	Dr. 50.00	.....
" " Hawaii, . . . . .	.....	" . . .	200.00	" . .	200.00	.....	.....
" " Kentucky, . . . . .	150.00	.....	.....	.....	.....	.....	150.00
" " Long Island, . . . . .	125.00	" . . .	375.00	" . .	250.00	.....	250.00
" " Louisiana, . . . . .	.....	" . . .	200.00	" . .	250.00	Dr. 50.00	.....
" " Lowell, . . . . .	.....	" . . .	400.00	" . .	400.00	.....	.....
" " Lynn, . . . . .	.....	" . . .	100.00	" . .	100.00	.....	.....
" " Maryland, . . . . .	.....	" . . .	500.00	" . .	500.00	.....	.....
" " Michigan, . . . . .	375.00	.....	.....	" . .	250.00	.....	125.00
Harvard Graduates of Milton, . . .	.....	" . . .	500.00	" . .	250.00	.....	250.00
Harvard Club of Minnesota, . . . .	.....	" . . .	300.00	" . .	300.00	.....	.....
" " Newburyport, . . . . .	.....	" . . .	60.00	.....	.....	Cr. \$60.00	.....
New England Federation of Harvard							
Clubs, . . . . .	50.00	.....	.....	.....	.....	.....	50.00

Amounts carried forward, \$15,895,108.92 \$606,675.84 \$15,863,866.25

# COLLEGE FUNDS (continued)

	Principal, July 1, 1917	Receipts	Expenditures	Suspense June 30, 1918	Principal, Totals
Amounts brought forward, \$15,695,108.92					\$606,675.84 \$15,868,866.25
Harvard Club of New Jersey, . . . . .		Gift . . . . \$250.00	Coll. Sch. . . . \$250.00		
" " Rhode Island, . . . . .	150.00				150.00
" " Rochester, . . . . .		" . . . . 200.00	" " . . . . 200.00		
" " San Francisco, . . . . .		" . . . . 350.00	" " . . . . 350.00		
" " St. Louis, . . . . .			" " . . . . 300.00	Dr. 800.00	
" " Taunton, . . . . .		" . . . . 200.00	" " . . . . 200.00		
" " Washington, D. C.					
" " (balance), . . . . .	54.24				54.24
" " Western Penn., . . . .		" . . . . 350.00	" " . . . . 350.00		
" " Worcester, . . . . .		" . . . . 200.00	" " . . . . 200.00		
John Appleton Haven (1902), . . . . .	11,153.97	Interest . . . . 574.43			11,728.40
William Hilton (1897), . . . . .	28,501.08	" . . . . 1,467.80	" " . . . . 235.00		29,298.88
		" . . . . Med. " . . . . 450.00			
Ebenezer Rockwood Hoar (1895), . . . . .	12,562.42				12,562.42
Lovina Hoar, for the Lincoln Scholarship (1876), . . . . .	6,989.31	" . . . . 359.93	Med. " . . . . 300.00		7,049.24
Hodges (1878), . . . . .	15,122.49	" . . . . 778.78	Trans. to Lib. . . . 895.88		15,505.59
Hollis (1722), . . . . .	7,020.89	" . . . . 361.58	Coll. Sch. . . . 180.00		7,902.47
Henry B. Humphrey (1890), . . . . .	11,796.66	" . . . . 607.56			12,404.22
Robert Darrah Jenks Scholarship in Railroad Law (1918) . . . . .		Gift Cap. . . . 5,500.00			5,500.00
		Interest . . . . 128.03	" " . . . . 128.03		

Charles L. Jones (1901), . . . . .	34,676.49	Interest . . .	1,785.81	Coll. Sch. . .	1,125.00	.....	35,802.30
George Emerson Lowell (1886),	11,707.17	" . . .	602.91	" . . .	250.00	.....	12,060.08
Robert F. Manning Scholarships (1916), . . . . .	10,432.27	" . . .	537.25	" . . .	450.00	.....	10,519.52
Markoe (1908), . . . . .	6,085.78	" . . .	318.43	" . . .	250.00	.....	6,149.21
Matthews, . . . . .	4,678.83	" . . .	240.97	" . . .		.....	1,935.43
William Henry Meeker '17 (1917)	.....	Rents . . .	1,165.63	" . . .	4,150.00	.....	
		Gift Cap. . .	4,000.00			.....	
Merriok (1888), . . . . .	6,951.25	Interest . . .	108.83			.....	4,108.83
Morey (1868), . . . . .	9,360.85	" . . .	357.98	" . . .	300.00	.....	7,009.23
Lady Mowison (1648), . . . . .	6,491.46	" . . .	482.09	" . . .	400.00	.....	9,442.94
Boston Newsboys' (1906), . . . . .	3,212.29	" . . .	324.29			.....	6,325.75
Howard Gardner Nichols (1897),	6,319.39	" . . .	165.42			.....	3,377.71
Lucy Osgood (1873), . . . . .	6,668.33	" . . .	325.43			.....	6,644.82
George Herbert Palmer (1911), .	2,088.99	" . . .	343.40	" . . .	275.00	.....	6,786.72
George Foster Peabody (1902), .	4,800.00	" . . .	105.01			.....	2,144.00
James Mills Peirce Scholarship (1908), . . . . .	6,188.70	" . . .	.....			.....	4,800.00
Stanley Bagg Pennook (1917) . .	.....	Gift Cap. . .	5,000.00			.....	6,507.43
		Interest . . .	298.00			.....	5,298.00
Pennoyer (1870), . . . . .	8,811.02	" . . .	452.77	Med. Sch. . .	200.00	.....	9,064.79
Charles Elliott Perkins Scholar- ships (1909), . . . . .	33,074.50	" . . .	1,708.31	Coll. " . .	1,200.00	.....	33,577.81
Rebecca A. Perkins (1869), . . .	5,182.40	" . . .	266.87	" . . .	135.00	.....	5,314.27
Philadelphia (1904), . . . . .	11,283.54	" . . .	531.13	" . . .	700.00	Dr. 118.87	11,283.54
Amounts carried forward, \$15,966,418.18	.....	.....	.....	.....	.....	.....	\$896,880.56 \$15,963,366.25

# COLLEGE FUNDS (continued)

	Principal, July 1, 1917	Receipts	Expenditures	Suspense	Principal, June 30, 1918	Totals
Amounts brought forward, \$15,966,418.18					\$896,680.56	\$15,863,366.25
Wendell Phillips Mem'l (1895), . . . . .	1,950.28	Interest . . . \$100.43	Coll. Sch. . . \$75.00	.....	1,975.76	
Einathan Pratt (1912), . . . . .	5,360.08	" . . . . . 270.89	" . . . . . 235.00	.....	5,305.97	
William Reed (1907), . . . . .	3,952.60	" . . . . . 187.08	" . . . . . 150.00	.....	3,989.68	
Scholarship in memory of						
Julian Henry Reinherz . . . . .	.....	Gift . . . . . 300.00	" . . . . . 300.00	.....	.....	
Ricardo Prize (balance), . . . . .	700.00	" . . . . . 350.00	" . . . . . 175.00	.....	911.05	
Rodger (1883), . . . . .	2,164.61	Interest . . . 111.50	" . . . . . 175.00	.....	2,276.11	
Henry Bromfield Rogers (1859), . . . . .	3,910.13	" . . . . . 201.36	" . . . . . 150.00	.....	3,961.49	
2 Nathaniel Ropes, Jr. Scholarship (1909), . . . . .	11,690.13	" . . . . . 602.03	" . . . . . 500.00	.....	11,792.16	
James Augustus Rumrill (1909), . . . . .	16,508.75	" . . . . . 850.21	" . . . . . 450.00	.....	16,908.96	
Edward Russell (1877), . . . . .	6,412.96	" . . . . . 330.27	" . . . . . 275.00	.....	6,468.23	
Sales (1893), . . . . .	6,415.90	" . . . . . 330.43	" . . . . . 250.00	.....	6,496.32	
Saltonstall (1739), . . . . .	12,391.97	" . . . . . 688.19	" . . . . . 525.00	.....	12,505.16	
Leverett Saltonstall (1895), . . . . .	9,452.76	" . . . . . 486.83	" . . . . . 240.00	.....	9,989.59	
Mary Saltonstall (1730), . . . . .	8,085.41	" . . . . . 416.38	" . . . . . 240.00	.....	8,261.79	
Philip H. Sears (1914), . . . . .	17,575.70	" . . . . . 905.16	" . . . . . 700.00	.....	17,780.86	
Sever (1868), . . . . .	3,397.01	" . . . . . 174.95	" . . . . . 150.00	.....	3,421.96	
Sewall (1896), . . . . .	12,632.27	" . . . . . 650.55	" . . . . . 500.00	.....	12,782.82	
Shatruck (1854), . . . . .	54,974.78	" . . . . . 2,831.21	" . . . . . 1,950.00	.....	56,855.99	
Shummin (1914), . . . . .	5,267.12	" . . . . . 271.25	" . . . . . 235.00	.....	5,813.37	

Slade (1877), . . . . .	6,641.74	Interest . . .	842.06	Coll. Sch. . .	275.00	.....	6,708.80
Dunlap Smith (1908), . . . . .	4,711.48	" . . .	200.57	" . . .	200.00	.....	4,712.05
Story (1864), . . . . .	5,062.29	" . . .	260.69	" . . .	200.00	.....	5,122.98
Stoughton (1701), . . . . .	3,812.01	Cap. Gain . .	510.65				
		Interest . . .	206.52		.....		4,529.18
Charles Sumner (gift), . . . . .	10.20	Gift . . .	200.00	" . . .	200.00	.....	10.20
Swift (1899), . . . . .	4,927.56	Interest . . .	253.80	" . . .	200.00	.....	4,981.36
Gorham Thomas (1865), . . . . .	4,788.17	" . . .	246.58	" . . .	125.00	.....	4,909.75
Toppan (1868), . . . . .	7,759.09	" . . .	399.59	" . . .	108.33	.....	8,050.85
Townsend (1861), . . . . .	29,216.23	" . . .	1,504.63	" . . .	1,025.00	.....	29,695.85
William Royall Tyler (1915), . . . . .	2,442.00	" . . .	125.76		.....	.....	2,567.76
Ira D. Van Dusee (1911), . . . . .	5,205.02	" . . .	268.06	Annuity . .	196.22	.....	5,276.86
Walcott (1855), . . . . .	5,908.30	" . . .	904.00	Coll. Sch. . .	100.00	.....	6,107.80
Christopher M. Weld (1899), . . . . .	11,724.28	" . . .	608.79	" . . .	550.00	.....	11,778.07
Gordon Wendell (1918), . . . . .	2,793.19	" . . .	130.84		.....	.....	2,914.03
Jacob Wendell (1899), . . . . .	6,112.35	" . . .	314.77	" . . .	250.00	.....	6,177.12
Whiting (1874), . . . . .	12,705.14	" . . .	684.31	" . . .	550.00	.....	12,809.45
Josiah Dwight Whitney (1904), . . . . .	5,287.54	" . . .	272.33	" . . .	100.00	.....	5,459.87
Mary L. Whitney (1903), . . . . .	12,479.22	" . . .	642.67	" . . .	525.00	.....	12,596.89
Willard (1907), . . . . .	11,023.26	" . . .	567.68	" . . .	525.00	.....	11,065.94
Augustus Woodbury Scholarship (1909), . . . . .	2,717.94	" . . .	139.98	" . . .	25.00	.....	2,882.92
Charles Wyman (1905), . . . . .	11,083.55	" . . .	568.26	" . . .	475.00	.....	11,126.80
Amounts carried forward, \$16,305,516.25							\$17,105,427.61

# COLLEGE FUNDS (continued)

	Principal, July 1, 1917	Receipts	Expenditures	Suspense	Principal, June 30, 1918	Totals
Amounts brought forward, \$15,966,418.18					\$896,680.56	\$15,868,868.25
Wendell Phillips Mem'l (1895), . . . . .	1,950.88	Interest . . . \$100.48	Coll. Sch. . . \$75.00	.....	1,975.76	
Elnathan Pratt (1913), . . . . .	5,360.08	" . . . 270.89	" . . . 285.00	.....	5,305.97	
William Reed (1907), . . . . .	8,952.60	" . . . 187.08	" . . . 150.00	.....	8,989.68	
Scholarship in memory of						
Julian Henry Reinherz . . . . .	.....	Gift . . . 300.00	" . . . 300.00	.....	.....	
Ricardo Prize (balance), . . . . .	700.00	" . . . 350.00	" . . . 175.00	.....	911.05	
Rodger (1883), . . . . .	2,164.61	Interest . . . 36.05	" . . . 175.00	.....	2,276.11	
Henry Bromfield Rogers (1859), . . . . .	8,910.18	" . . . 111.50	" . . . 150.00	.....	8,961.49	
† Nathaniel Ropes, Jr. Scholarship (1909), . . . . .	11,690.18	" . . . 602.03	" . . . 500.00	.....	11,792.16	
James Augustus Rumrill (1909), . . . . .	16,508.75	" . . . 850.21	" . . . 450.00	.....	16,908.96	
Edward Russell (1877), . . . . .	6,412.96	" . . . 380.27	" . . . 275.00	.....	6,468.23	
Sales (1898), . . . . .	6,415.90	" . . . 380.42	" . . . 250.00	.....	6,496.32	
Saltonstall (1739), . . . . .	12,891.97	" . . . 688.19	" . . . 525.00	.....	12,505.16	
Leverett Saltonstall (1895), . . . . .	9,452.76	" . . . 486.88	" . . . 240.00	.....	9,989.59	
Mary Saltonstall (1780), . . . . .	8,085.41	" . . . 416.38	" . . . 700.00	.....	8,261.79	
Philip H. Sears (1914), . . . . .	17,575.70	" . . . 905.16	" . . . 150.00	.....	17,780.86	
Sever (1868), . . . . .	8,897.01	" . . . 174.95	" . . . 500.00	.....	8,421.96	
Sewall (1896), . . . . .	12,632.27	" . . . 650.55	" . . . 1,950.00	.....	12,782.82	
Shatruck (1864), . . . . .	54,974.78	" . . . 2,881.21	" . . . 225.00	.....	55,855.99	
Shimmin (1914), . . . . .	5,267.12	" . . . 271.25	" . . . 225.00	.....	5,818.37	

<b>Slade (1877), . . . . .</b>	<b>6,641.74</b>	<b>Interest . . .</b>	<b>242.06</b>	<b>Coll. Sch. . .</b>	<b>275.00</b>	<b>6,708.80</b>
<b>Dunlap Smith (1908), . . . . .</b>	<b>4,711.48</b>	<b>" . . .</b>	<b>200.87</b>	<b>" . . .</b>	<b>200.00</b>	<b>4,712.05</b>
<b>Story (1864), . . . . .</b>	<b>5,062.29</b>	<b>" . . .</b>	<b>260.69</b>	<b>" . . .</b>	<b>200.00</b>	<b>5,122.98</b>
<b>Stoughton (1701), . . . . .</b>	<b>3,812.01</b>	<b>Cap. Gain . .</b>	<b>510.65</b>			
		<b>Interest . . .</b>	<b>206.52</b>			<b>4,539.18</b>
<b>Charles Sumner (gift), . . . . .</b>	<b>10.20</b>	<b>Gift . . .</b>	<b>200.00</b>	<b>" . . .</b>	<b>200.00</b>	<b>10.20</b>
<b>Swift (1899), . . . . .</b>	<b>4,927.56</b>	<b>Interest . . .</b>	<b>253.80</b>	<b>" . . .</b>	<b>200.00</b>	<b>4,981.36</b>
<b>Gorham Thomas (1865), . . . . .</b>	<b>4,788.17</b>	<b>" . . .</b>	<b>246.58</b>	<b>" . . .</b>	<b>125.00</b>	<b>4,909.75</b>
<b>Toppan (1868), . . . . .</b>	<b>7,769.09</b>	<b>" . . .</b>	<b>399.59</b>	<b>" . . .</b>	<b>108.33</b>	<b>8,080.85</b>
<b>Townsend (1861), . . . . .</b>	<b>29,216.23</b>	<b>" . . .</b>	<b>1,504.62</b>	<b>" . . .</b>	<b>1,025.00</b>	<b>29,695.85</b>
<b>William Royall Tyler (1915), . . . . .</b>	<b>2,442.00</b>	<b>" . . .</b>	<b>135.76</b>			<b>2,567.76</b>
<b>Ira D. Van Dusee (1911), . . . . .</b>	<b>5,206.02</b>	<b>" . . .</b>	<b>268.06</b>	<b>Annuity . .</b>	<b>196.22</b>	<b>5,276.86</b>
<b>Walcott (1855), . . . . .</b>	<b>5,903.80</b>	<b>" . . .</b>	<b>304.00</b>	<b>Coll. Sch. . .</b>	<b>100.00</b>	<b>6,107.80</b>
<b>Christopher M. Weld (1899), . . . . .</b>	<b>11,724.28</b>	<b>" . . .</b>	<b>608.79</b>	<b>" . . .</b>	<b>550.00</b>	<b>11,778.07</b>
<b>Gordon Wendell (1918), . . . . .</b>	<b>2,798.19</b>	<b>" . . .</b>	<b>130.84</b>			<b>2,914.08</b>
<b>Jacob Wendell (1899), . . . . .</b>	<b>6,112.35</b>	<b>" . . .</b>	<b>314.77</b>	<b>" . . .</b>	<b>250.00</b>	<b>6,177.12</b>
<b>Whiting (1874), . . . . .</b>	<b>12,705.14</b>	<b>" . . .</b>	<b>684.31</b>	<b>" . . .</b>	<b>550.00</b>	<b>12,809.45</b>
<b>Josiah Dwight Whitney (1904), . . . . .</b>	<b>5,287.54</b>	<b>" . . .</b>	<b>272.33</b>	<b>" . . .</b>	<b>100.00</b>	<b>5,459.87</b>
<b>Mary L. Whitney (1903), . . . . .</b>	<b>12,479.22</b>	<b>" . . .</b>	<b>642.67</b>	<b>" . . .</b>	<b>525.00</b>	<b>12,596.89</b>
<b>Willard (1907), . . . . .</b>	<b>11,038.26</b>	<b>" . . .</b>	<b>587.68</b>	<b>" . . .</b>	<b>525.00</b>	<b>11,086.94</b>
<b>Augustus Woodbury Scholarship (1909), . . . . .</b>	<b>2,717.94</b>	<b>" . . .</b>	<b>189.98</b>	<b>" . . .</b>	<b>25.00</b>	<b>2,852.92</b>
<b>Charles Wyman (1905), . . . . .</b>	<b>11,083.55</b>	<b>" . . .</b>	<b>568.25</b>	<b>" . . .</b>	<b>475.00</b>	<b>11,126.80</b>
<b>Amounts carried forward, \$16,305,516.25</b>						<b>\$17,105,427.61</b>

# COLLEGE FUNDS (continued)

	Principal, July 1, 1917	Receipts	Expenditures	Suspense	Principal, June 30, 1918	Totals
Amounts brought forward, \$16,305,516.25						\$17,108,427.61
BENEFICIARY AND LOAN						
Rebecca C. Ames (1908), . . . .	58,594.80	Interest . . . \$8,017.59				
		Loans repaid 500.92	Coll. B. F. . \$2,505.00		59,607.81	
Nathaniel Appleton (1772), . . .	814.92	Interest . . . 41.97			856.89	
Frank Bolles Memorial (1894), . .	2,835.09	" . . . 146.00				
		Loans repaid 80.88			3,011.47	
William Brattle (1717), . . . .	1,921.26	Interest . . . 98.98	" " . . 98.98		1,921.26	
Daniel A. Buckley (1905), . . . .	103,325.94	" . . . 1,893.45	" " . . 2,650.00			
			Med. Sch. . . 225.00			
			F. & G. Sp. . 2,643.97		98,700.42	
Walter Channing Cabot (1905), . .	55,881.70	" . . . 2,875.85	Div. Sal. . . 2,000.00		56,707.05	
Samuel C. Cobb (1916), . . . .	80,430.00	Gift Cap. . . 4,000.00				
		Interest . . . 1,709.59	Coll. B. F. . 1,850.00		84,789.59	
Thomas Danforth (1724), . . . .	1,594.59	" . . . 82.14			1,676.73	
Moses Day (1890), . . . .	5,490.08	" . . . 282.74	" " . . 282.74		5,490.08	
Dean's Loan, Harvard College, . .	381.80	.....			381.80	
John Ellery (1788), . . . .	549.89	" . . . 28.33	" " . . 28.38		549.89	
Exhibitions (1796), . . . .	1,387.77	" . . . 71.48	" " . . 71.48		1,387.77	
Fines Loan (balance), . . . .	2,500.05	" . . . 66.83				
		Loans repaid 2,503.71				
		Fees . . . 1,605.00	" " . . 1,920.57		4,755.01	
Thomas Fitch (1787), . . . .	1,339.76	Interest . . . 69.01			1,408.77	

Ephraim Flynt (1728), . . . . .	656.80	Interest . . .	33.78	.....	.....	690.08
Henry Flynt (1760), . . . . .	236.81	" . . .	12.15	.....	.....	248.46
Freshman Loan (balance), . . . . .	1,194.00	" . . .	30.60	.....	.....	
		Loans repaid	986.55	Coll. B. F. .	481.00	1,780.15
Freshman Loan, Gove Gift, . . . . .	1,215.86	Interest . . .	48.68	.....	.....	1,264.49
Edward William Friend Memorial (1916), . . . . .	1,225.00	" . . .	67.34	.....	Cr. \$1.68	1,290.71
Henry Gibbs (1729), . . . . .	652.27	" . . .	38.57	.....	.....	686.84
John Glover (1653), . . . . .	5,217.67	" . . .	268.78	.....	.....	5,486.40
Loan Fund — Graduate School of Arts and Sciences, . . . . .	29.55	Gift . . . .	151.50	.....	.....	
		Loans repaid	441.98	" . .	480.00	198.08
Price Greenleaf Aid (balance), . .	39,644.25	Interest . . .	2,041.67	.....	.....	
		Loans repaid	377.25	.....	.....	
		Trans. from Fd. 17,512.25	.....	" . .	11,807.50	47,767.92
Edwin A. W. Harlow (1905), . .	14,501.42	Interest . . .	746.80	.....	.....	
		Loans repaid	469.78	" . .	160.00	15,558.00
Robert Henry Harlow (1908), . .	7,044.66	Interest . . .	362.82	.....	.....	
		Loans repaid	102.81	.....	.....	7,509.79
Harvard Dames Fund, . . . . .	245.00	Interest . . .	12.62	.....	.....	257.62
Student Fund of the Harvard Engineering Society of New York (1908) (balance), . . . . .	1,102.83	" . . . .	50.97	.....	.....	
		Loans repaid	189.10	.....	.....	1,342.90
Edward Holyoke (1748), . . . . .	589.65	Interest . . .	30.39	" . .	26.00	596.04
Robert Keayne (1659), . . . . .	2,969.78	" . . . .	152.96	" . .	152.96	2,969.78

Amounts carried forward, \$16,648,087.45

\$858,897.25 \$17,105,497.61

# COLLEGE FUNDS (continued)

	Principal, July 1, 1917	Receipts	Expenditures	Suspense	Principal, June 30, 1918	Totals
Amounts brought forward, \$16,648,087.45					\$858,827.25	\$17,105,427.61
Bertram Kimball (1908), . . . .	26,963.90	Interest . . \$1,388.13	Coll. B. F. . \$1,212.48	.....	27,139.60	
Harry Milton Levy Loan (College) (balance), . . . . .	441.99	" . . . . 9.12	" . . . .	.....		
		Loans repaid 285.61	" . . 210.00	.....	596.72	
Mary Lindall (1812), . . . . .	1,686.61	Interest . . 84.81	.....	.....	1,790.92	
The Loan, . . . . .	.....	Receipts from				
		Trustees . . 1,140.00	" . . 1,140.00	.....	.....	
Susan B. Lyman (1899), . . . . .	5,988.87	Interest . . 308.43	Tr. to Coll. B. F. 205.62	.....	.....	
		" " Engin. " 102.81		.....	5,988.87	
Susan B. Lyman Loans (College) (balance), . . . . .	355.27	Interest . . 10.27				
		Loans repaid 428.04				
		Trans. from Fd. 205.62	Coll. B. F. . 150.00	.....	849.20	
Anne Mills (1725), . . . . .	299.73	Interest . . 15.45	" . . 15.45	.....	299.73	
Munroe (1890), . . . . .	12,867.40	" . . . . 662.65		.....		
		Loans repaid 25.00	.....	.....	18,555.05	
Palfrey Exhibition (1891), . . . . .	2,614.92	Interest . . 184.67	" . . 100.00	.....	2,849.59	
Dr. Andrew P. Peabody Memorial (1896), . . . . .	6,500.75	" . . . . 384.80				
		Loans repaid 207.35	.....	.....	7,042.90	
Regent's Loan Fund, . . . . .	773.08	.....	.....	.....	773.08	

Scholarship and Beneficiary Money  
Returned (balance), . . . . .

1,856.26 Gift . . . . . 98.32  
Interest . . . . . 55.96

Loans repaid 3,156.88 Coll. B. F. . 2,198.00  
Interest . . . . . 17.05

2,969.42  
347.91

Joseph Sewall (1765), . . . . .  
Alexander Wheelock Thayer

17,868.95 " . . . . . 920.00  
11,409.81 " . . . . . 587.61

18,783.95  
11,698.96

Quincy Tufts (1877), . . . . .  
Benjamin Wadsworth (1737), . . . . .

405.27 " . . . . . 20.86  
129,208.92 " . . . . . 6,654.26

426.18  
135,863.18

Waite Memorial (1912), . . . . .  
Stuart Wadsworth Wheeler

11,044.38 " . . . . . 568.76

11,613.14

601,060.60

3

PRIZES

Jeremy Belknap, . . . . .  
James Gordon Bennett (1893), . . . . .  
Philo Sherman Bennett (1905), . . . . .  
Francis Boott (1904), . . . . .

Gift . . . . . \$50.00 Coll. Prize . \$50.00  
Interest . . . . . 117.88 " " . 75.00  
" . . . . . 30.23  
" . . . . . 556.20 " " . 90.00

.....  
\$2,382.02  
617.43

Tr. to Lib. Fd. 866.20

10,900.00

Bowdoin Prizes for Dissertations  
(1791), . . . . .

35,602.70 " . . . . . 1,838.55 Coll. Prize . 1,592.52

35,843.78

Henry S. Bowers, . . . . .  
Boylston Prizes for Elocution (1817), . . . . .

75.00 Gift . . . . . 75.00  
2,540.40 Interest . . . . . 130.81

75.00  
2,611.21

Coolidge Debating (1899), . . . . .  
Dante, . . . . .

6,056.68 " . . . . . 311.88  
100.00

6,068.98  
100.00

Amounts carried forward, \$16,936,639.54 . . . . . \$58,548.37 \$17,706,488.21

# COLLEGE FUNDS (continued)

	Principal, July 1, 1917	Receipts	Expenditures	Suspense June 30, 1918	Principal, Totals June 30, 1918
Amounts brought forward, \$16,986,889.54					\$58,548.37 \$17,706,488.21
Lloyd McKim Garrison Prize and Medal (1904), . . . . .	3,050.89	Interest . . . \$157.13	Coll. Prize . \$100.00	.....	8,108.03
Harvard Club of New Jersey Prizes (balance), . . . . .	8.24	.....	.....	.....	8.24
Harvard Club of North China, . . .	.....	Gift . . . . 100.00	.....	.....	100.00
Edward Hopkins Gift for "De- tours" (1718) (balance), . . . . .	2,745.24	Interest . . . 141.37	.....	.....	.....
		Receipts from			
George Arthur Knight (1909), . .	1,538.42	Trustees . . 246.48	" " . . 293.29	.....	2,839.80
Menorah Society, . . . . .	.....	Interest . . 79.21	.....	.....	1,617.63
Old Testament Study, . . . . .	50.00	Receipts . . 100.00	.....	.....	100.00
Patria Society Gift, . . . . .	50.00	.....	.....	.....	50.00
Susan Anthony Potter, . . . . .	286.59	Gift . . . . 235.00	.....	.....	50.00
Sales (1892), . . . . .	1,284.68	Interest . . 14.78	" " . . 175.00	.....	851.37
John O. Sargent (1889), . . . . .	3,127.87	" " . . 66.18	" " . . 45.00	.....	1,805.86
George B. Sohler (1890), . . . . .	7,250.00	" " . . 161.09	.....	.....	3,298.96
		" " . . 373.37	" " . . 260.00	.....	.....
Charles Sumner (1874), . . . . .	5,399.59	" " . . 278.10	Tr. to Lib. Fd. 128.37	.....	7,250.00
Robert N. Toppan (1894), . . . . .	4,706.66	" " . . 242.41	Coll. Prize . 400.00	.....	5,677.69
Lee Wade II (1916), . . . . .	1,000.00	" " . . 50.00	" " . . 50.00	.....	4,549.07
Philip Washburn (1899), . . . . .	2,717.55	" " . . 139.98	.....	.....	1,000.00
				.....	2,827.53

<b>David A. Wells (1901), . . . . .</b>	<b>115,172.12</b>	<b>Interest . . .</b>	<b>5,331.36</b>	<b>Coll. Sal. . .</b>	<b>999.51</b>	
				" Prize . .	600.00	
<b>Elizabeth Wilder (1911), . . . . .</b>	<b>2,389.50</b>	" . . .	<b>117.94</b>	" Sp. Ex. . .	<b>4,331.85</b>	<b>115,172.12</b>
<b>Wister (1911), . . . . .</b>	<b>978.20</b>	" . . .	<b>50.37</b>	" Prize . .	<b>95.00</b>	<b>2,312.44</b>
					<b>1,028.57</b>	<b>211,215.67</b>
<b>SUMMER SCHOOL</b>						
<b>Sayles, for Summer Course in Geology (1909), . . . . .</b>	<b>\$10,534.24</b>	<b>Interest . . .</b>	<b>\$542.50</b>		<b>.....</b>	<b>\$11,076.74</b>
<b>Gift for current use, . . . . .</b>	<b>.....</b>	<b>Gift . . . . .</b>	<b>250.00</b>		<b>.....</b>	<b>250.00</b>
<b>LIBRARY</b>						
<b>Anonymous Fund for Library (1913), .</b>	<b>\$25,000.00</b>	<b>Interest . . .</b>	<b>\$800.00</b>	<b>Lib. G. Ex. .</b>	<b>\$800.00</b>	<b>\$25,000.00</b>
<b>Edwin Swift Balch, Class of 1878, (1916), . . . . .</b>	<b>.....</b>	<b>Gift Cap. . . .</b>	<b>5,000.00</b>		<b>.....</b>	<b>5,000.00</b>
<b>Boott Income for Books (balance), .</b>	<b>537.08</b>	<b>Interest . . .</b>	<b>27.64</b>		<b>.....</b>	<b>301.32</b>
		<b>Trans. from Fd.</b>	<b>366.20</b>	<b>" Books .</b>	<b>639.60</b>	<b>2,367.93</b>
<b>Bowditch (1861), . . . . .</b>	<b>2,302.88</b>	<b>Interest . . .</b>	<b>118.60</b>	<b>" " .</b>	<b>53.55</b>	<b>107.31</b>
<b>Bright (balance), . . . . .</b>	<b>74.00</b>	<b>Trans. from Fd.</b>	<b>1,287.50</b>	<b>" " .</b>	<b>1,254.19</b>	<b>1,980.84</b>
<b>William R. Castle (1907), . . . . .</b>	<b>2,107.19</b>	<b>Interest . . .</b>	<b>107.16</b>	<b>" " .</b>	<b>238.51</b>	<b>29,279.99</b>
<b>Francis James Child Memorial (1897), . . . . .</b>	<b>29,393.33</b>	<b>" . . .</b>	<b>1,513.74</b>	<b>" " .</b>	<b>1,637.08</b>	<b>2,122.84</b>
<b>Fund of the Class of 1851 (1899), .</b>	<b>2,051.30</b>	<b>" . . .</b>	<b>106.63</b>	<b>" " .</b>	<b>34.09</b>	<b>3,788.69</b>
<b>Book Fund of the Class of 1881 (1906), . . . . .</b>	<b>3,732.80</b>	<b>" . . .</b>	<b>192.25</b>	<b>" " .</b>	<b>136.36</b>	<b>204.04</b>
<b>Edwin Conant (1892), . . . . .</b>	<b>28,026.07</b>	<b>" . . .</b>	<b>1,443.34</b>	<b>" " .</b>	<b>1,082.51</b>	<b>28,182.86</b>
<b>Amounts carried forward, \$17,122,053.98</b>	<b>.....</b>	<b>.....</b>	<b>.....</b>	<b>G. Ex. .</b>	<b>1,082.51</b>	<b>\$98,131.78</b>
						<b>\$17,929,080.63</b>

# COLLEGE FUNDS (continued)

	Principal, July 1, 1917	Receipts	Expenditures	Suspense June 30, 1918	Principal, Totals
Amounts brought forward, \$16,986,689.54					\$58,548.87 \$17,706,488.21
Lloyd McKim Garrison Prize and Medal (1904), . . . . .	3,050.89	Interest . . . \$157.13	Coll. Prize . \$100.00	.....	3,108.02
Harvard Club of New Jersey Prizes (balance), . . . . .	8.24	.....	.....	.....	8.24
Harvard Club of North China, . . .	.....	Gift . . . 100.00	.....	.....	100.00
Edward Hopkins Gift for "Deaths" (1718) (balance), . . . . .	2,745.24	Interest . . . 141.37	.....	.....	.....
		Receipts from			
George Arthur Knight (1909), . . .	1,588.43	Trustees . . 246.48	" " . . 298.29	.....	2,889.80
Menorah Society, . . . . .	.....	Interest . . 79.21	.....	.....	1,617.63
Old Testament Study, . . . . .	50.00	Receipts . . 100.00	.....	.....	100.00
Patria Society Gift, . . . . .	50.00	.....	.....	.....	50.00
Susan Anthony Potter, . . . . .	286.59	.....	.....	.....	50.00
		Gift . . . 235.00	.....	.....	.....
Sales (1892), . . . . .	1,284.68	Interest . . 14.78	" " . . 175.00	.....	351.37
John O. Sargent (1889), . . . . .	3,127.87	" " . . 66.18	" " . . 45.00	.....	1,305.86
George B. Sohler (1890), . . . . .	7,250.00	" " . . 161.09	.....	.....	3,288.96
		" " . . 873.37	" " . . 250.00	.....	.....
			Tr. to Lib. Fd. 128.37	.....	7,250.00
Charles Sumner (1874), . . . . .	5,399.59	" " . . 278.10	.....	.....	5,677.69
Robert N. Toppan (1894), . . . . .	4,706.66	" " . . 243.41	Coll. Prize . 400.00	.....	4,649.07
Lee Wade II (1915), . . . . .	1,000.00	" " . . 50.00	" " . . 50.00	.....	1,000.00
Philip Washburn (1899), . . . . .	2,717.55	" " . . 189.98	.....	.....	2,887.53

David A. Wells (1901), . . . . .	115,172.12	Interest . . .	5,981.86	Coll. Sal. . .	999.51	
				" Prize . .	600.00	
Elizabeth Wilder (1911), . . . . .	2,989.50	" . . .	117.94	" Sp. Ex. . .	4,831.85	115,172.12
Wister (1911), . . . . .	978.20	" . . .	50.87	" Prize . .	95.00	2,312.44
						1,028.57
						<u>211,215.67</u>
SUMMER SCHOOL						
Sayles, for Summer Course in Geology (1909), . . . . .	\$10,534.24	Interest . . .	\$542.50			\$11,076.74
Gift for current use, . . . . .		Gift . . . .	250.00			250.00
						<u>11,326.74</u>
LIBRARY						
Anonymous Fund for Library (1919), . .	\$25,000.00	Interest . . .	\$800.00	Lib. G. Ex. .	\$800.00	\$25,000.00
Edwin Swift Balch, Class of 1878, (1918), . . . . .		Gift Cap. . .	5,000.00			5,000.00
Boott Income for Books (balance), . .	537.08	Interest . . .	27.64			
		Trans. from Fd.	366.20	" Books . .	639.60	301.32
Bowditch (1861), . . . . .	2,302.88	Interest . . .	118.60	" " . .	53.55	2,867.93
Bright (balance), . . . . .	74.00	Trans. from Fd.	1,287.50	" " . .	1,254.19	107.81
William R. Castle (1907), . . . .	2,107.19	Interest . . .	107.16	" " . .	288.51	1,980.84
Francis James Child Memorial (1897), . . . . .	29,393.38	" . . .	1,513.74	" " . .	1,627.08	29,279.99
Fund of the Class of 1851 (1899), . .	2,051.30	" . . .	106.63	" " . .	34.09	2,122.84
Book Fund of the Class of 1881 (1906), . . . . .	3,732.80	" . . .	192.25	" " . .	186.86	3,788.69
Edwin Conant (1892), . . . . .	28,026.07	" . . .	1,443.84	" " . .	204.04	
				" G. Ex. . .	1,032.51	28,182.86
Amounts carried forward, \$17,192,053.98 . . . . .						<u>\$98,181.78 \$17,929,080.63</u>

# COLLEGE FUNDS (continued)

	Principal, July 1, 1917	Receipts	Expenditures	Suspense June 30, 1918	Principal, Totals June 30, 1918
Amounts brought forward, \$16,986,689.54					\$58,548.37 \$17,706,488.21
Lloyd McKim Garrison Prize and Medal (1904), . . . . .	3,050.89	Interest . . . \$157.13	Coll. Prize . \$100.00	.....	8,108.02
Harvard Club of New Jersey Prizes (balance), . . . . .	8.24	Gift . . . . .	.....	.....	8.24
Harvard Club of North China, . . .	.....	Gift . . . . . 100.00	.....	.....	100.00
Edward Hopkins Gift for "De- tours" (1718)(balance), . . . . .	2,745.24	Interest . . . . . 141.37	.....	.....	.....
		Receipts from			
		Trustees . . . . . 246.48	" " . . . . . 298.29	.....	2,889.80
George Arthur Knight (1909), . . .	1,538.43	Interest . . . . . 79.21	.....	.....	1,617.63
Menorah Society, . . . . .	.....	Receipts . . . . . 100.00	.....	.....	100.00
Old Testament Study, . . . . .	50.00	.....	.....	.....	50.00
Patris Society Gift, . . . . .	50.00	.....	.....	.....	50.00
Susan Anthony Potter, . . . . .	286.59	Gift . . . . . 295.00	.....	.....	.....
		Interest . . . . . 14.78	" " . . . . . 175.00	.....	351.37
Sales (1892), . . . . .	1,284.68	" " . . . . . 66.18	" " . . . . . 45.00	.....	1,805.96
John O. Sargent (1899), . . . . .	8,127.87	" " . . . . . 161.09	.....	.....	8,288.96
George B. Schier (1890), . . . . .	7,250.00	" " . . . . . 373.37	" " . . . . . 250.00	.....	.....
			Tr. to Lib. Fd. 123.37	.....	7,250.00
Charles Sumner (1874), . . . . .	5,899.59	" " . . . . . 278.10	.....	.....	5,677.69
Robert N. Toppan (1894), . . . . .	4,706.66	" " . . . . . 242.41	Coll. Prize . 400.00	.....	4,549.07
Lee Wade II (1915), . . . . .	1,000.00	" " . . . . . 50.00	" " . . . . . 50.00	.....	1,000.00
Philip Washburn (1899), . . . . .	2,717.55	" " . . . . . 189.98	.....	.....	2,887.53

<b>David A. Wells (1901),</b> . . . . .	115,172.12	Interest . . .	5,931.36	Coll. Sal. . .	999.51	
				" Prize . .	600.00	
<b>Elizabeth Wilder (1911),</b> . . . . .	2,289.50	" . . .	117.94	" Sp. Ex. . .	4,331.85	115,172.12
<b>Wister (1911),</b> . . . . .	978.20	" . . .	50.37	" Prize . .	95.00	2,312.44
						1,028.57
						<u>211,215.67</u>

# SUMMER SCHOOL

<b>Sayles, for Summer Course in Geology (1909),</b> . . . . .	\$10,534.24	Interest . . .	\$542.50			\$11,076.74
Gift for current use, . . . . .	.....	Gift . . . .	250.00			250.00
						<u>11,326.74</u>

# LIBRARY

<b>Anonymous Fund for Library (1918),</b> . .	\$25,000.00	Interest . . .	\$800.00	Lib. G. Ex. .	\$300.00	\$25,000.00
<b>Edwin Swift Balch, Class of 1878,</b> (1918), . . . . .	.....	Gift Cap. . .	5,000.00			5,000.00
<b>Boott Income for Books (balance),</b> . .	537.08	Interest . . .	27.64			
		Trans. from Fd.	866.20	" Books . .	639.60	301.32
<b>Bowditch (1861),</b> . . . . .	2,302.88	Interest . . .	118.60	" " . .	53.55	2,367.93
<b>Bright (balance),</b> . . . . .	74.00	Trans. from Fd.	1,287.50	" " . .	1,254.19	107.31
<b>William R. Castle (1907),</b> . . . . .	2,107.19	Interest . . .	107.16	" " . .	233.51	1,980.84
<b>Francis James Child Memorial</b> (1897), . . . . .	29,393.33	" . . .	1,513.74	" " . .	1,627.08	29,279.99
<b>Fund of the Class of 1851 (1899),</b> . .	2,051.30	" . . .	105.63	" " . .	34.09	2,122.84
<b>Book Fund of the Class of 1861</b> (1906), . . . . .	3,782.80	" . . .	192.25	" " . .	136.36	3,788.69
<b>Edwin Conant (1893),</b> . . . . .	26,026.07	" . . .	1,443.34	" " . .	204.04	
				" G. Ex. . .	1,032.51	26,182.86
<b>Amounts carried forward, \$17,192,053.98</b>						<u>\$98,131.78</u>
						\$17,929,080.62

# COLLEGE FUNDS (continued)

	Principal, July 1, 1917	Receipts	Expenditures	Suspense June 30, 1918	Principal, Totals June 30, 1918
Amounts brought forward, \$16,986,689.54					\$58,548.37 \$17,706,488.21
Lloyd McKim Garrison Prize and Medal (1904), . . . . .	3,050.89	Interest . . . \$157.13	Coll. Prize . \$100.00	.....	3,108.03
Harvard Club of New Jersey Prizes (balance), . . . . .	8.24	.....	.....	.....	8.24
Harvard Club of North China, . . .	.....	Gift . . . 100.00	.....	.....	100.00
Edward Hopkins Gift for "De- tours" (1718)(balance), . . . . .	2,745.24	Interest . . . 141.37	.....	.....	.....
		Receipts from			
George Arthur Knight (1909), . .	1,588.43	Trustees . . 246.48	" " 298.29	.....	2,889.80
Menorah Society, . . . . .	.....	Interest . . 79.21	.....	.....	1,617.63
Old Testament Study, . . . . .	50.00	Receipts . . 100.00	.....	.....	100.00
Patria Society Gift, . . . . .	50.00	.....	.....	.....	50.00
Susan Anthony Potter, . . . . .	286.59	Gift . . . . 235.00	.....	.....	50.00
		Interest . . 14.78	" " 173.00	.....	351.37
Sales (1892), . . . . .	1,284.68	" " 66.18	" " 45.00	.....	1,305.86
John O. Sargent (1889), . . . . .	3,127.87	" " 161.09	.....	.....	3,288.96
George B. Sohler (1890), . . . . .	7,250.00	" " 373.37	" " 250.00	.....	.....
			Tr. to Lib. Fd. 128.37	.....	7,250.00
Charles Sumner (1874), . . . . .	5,399.59	" " 278.10	.....	.....	5,677.69
Robert N. Toppan (1894), . . . . .	4,708.66	" " 242.41	Coll. Prize 400.00	.....	4,549.07
Lee Wade II (1915), . . . . .	1,000.00	" " 50.00	" " 50.00	.....	1,000.00
Philip Washburn (1899), . . . . .	2,717.55	" " 189.98	.....	.....	2,857.53

<b>David A. Wells (1901),</b> . . . . .	115,172.12	Interest . . .	5,931.36	Coll. Sal. . .	999.51	
				" Prize . .	600.00	
<b>Elizabeth Wilder (1911),</b> . . . . .	2,289.50	" . . .	117.94	" Sp. Ex. . .	4,331.85	115,172.12
<b>Wister (1911),</b> . . . . .	978.20	" . . .	50.37	" Prize . .	95.00	2,312.44
					.....	1,028.57
						<u>211,215.67</u>
<b>SUMMER SCHOOL</b>						
<b>Sayles, for Summer Course in Geology (1909),</b> . . . . .	\$10,534.24	Interest . . .	\$542.50		.....	\$11,076.74
<b>Gift for current use,</b> . . . . .	.....	Gift . . . .	250.00		.....	250.00
						<u>11,326.74</u>
<b>LIBRARY</b>						
<b>Anonymous Fund for Library (1919),</b> . .	\$25,000.00	Interest . . .	\$800.00	Lib. G. Ex. .	\$800.00	\$25,000.00
<b>Edwin Swift Balch, Class of 1878,</b> (1918), . . . . .	.....	Gift Cap. . .	5,000.00		.....	5,000.00
<b>Boott Income for Books (balance),</b> . .	537.08	Interest . . .	27.64		.....	
		Trans. from Fd.	366.20	" Books . .	639.60	301.32
<b>Bowditch (1861),</b> . . . . .	2,302.88	Interest . . .	118.60	" " . .	53.55	2,367.93
<b>Bright (balance),</b> . . . . .	74.00	Trans. from Fd.	1,287.50	" " . .	1,254.19	107.31
<b>William R. Castle (1907),</b> . . . . .	2,107.19	Interest . . .	107.16	" " . .	233.51	1,980.84
<b>Francis James Child Memorial</b> (1897), . . . . .	29,393.33	" . . .	1,513.74	" " . .	1,637.08	29,279.99
<b>Fund of the Class of 1851 (1899),</b> . .	2,061.30	" . . .	105.63	" " . .	34.09	2,122.84
<b>Book Fund of the Class of 1831</b> (1906), . . . . .	3,732.80	" . . .	192.25	" " . .	186.86	3,788.69
<b>Edwin Conant (1892),</b> . . . . .	28,026.07	" . . .	1,443.34	" " . .	204.04	
				" G. Ex. . .	1,082.51	28,182.86
<b>Amounts carried forward, \$17,192,053.98</b>						<u>\$98,131.78</u>
						\$17,929,080.62

LIBRARY (continued)

	Principal, July 1, 1917	Receipts	Expenditures	Suspense	Principal, June 30, 1918	Totals
Amounts brought forward, \$17,192,053.98						
Constantius (1886), . . . . .	26,742.43	Interest . . . \$1,377.21	Lib. Books . \$520.50			\$98,131.78
Archibald O. Coolidge and			" G. Ex. . 688.61			26,910.53
Clarence L. Hay (1910), . . .	5,281.77	" . . 273.02	" Books . 27.13			5,526.66
S. Newton Cutler (1912), . . .	1,009.58	" . . 52.02	" " . 13.92			1,047.68
W. Bayard Cutting, Jr. Bequest						
(1910), . . . . .	12,698.11	" . . 653.95	" " . 751.06			12,601.00
Horace Davis Bequest (1917), . .	.....	Gift Cap. . 10,000.00	" " .			
5 Peter P. F. Degrand Bequest (1917),	75,342.76	Interest . . 452.94	" " .	Cr. \$451.25		9,686.60
Denny (1875), . . . . .	5,565.84	Gift Cap. . 12,182.15	" " .			91,037.88
Henry Weston Farnsworth Me-		Interest . . 4,408.68	" " .			5,539.29
morial (1917), . . . . .	30,185.77	" . . 286.85	" " .			
Farrar (1871), . . . . .	5,620.59	" . . 1,554.58	Sp. Ex. . 957.50			80,792.85
John Hays Gardiner Memorial		" . . 289.48	" Books . 86.22			5,873.85
(1913), . . . . .	2,244.41	" . . 115.57	" " .			2,282.97
Department of German (1915), . .	2,983.88	" . . 159.62	" " .			3,138.75
Price Greenleaf (balance for books),	506.42	Trans. from Fd. 1,000.00	" " .			686.93
Price Greenleaf (for general ex-						
penses), . . . . .	.....	" " 16,512.25	G. Ex. . 16,512.25			.....
Charles Gross Memorial (1910), .	1,714.43	Interest . . 88.27	" Books . 32.28			1,770.47

# **George Silabee and Ellen Sever**

Hale Fund (balance), . . . . .	532.80	Interest . . .	26.98	Lib. Books .	319.16	541.58
Edward H. Hall (1913), . . . . .	10,600.86	Trans. from Fd.	311.01	" "	277.13	10,869.68
Frederic Hilborn Hall Memorial (1916), . . . . .	5,186.12	Interest . . .	267.08	" "	70.22	5,382.98
Haven (1844), . . . . .	3,206.46	" "	165.11	" "	44.78	3,326.79
Hayes (1885), . . . . .	10,340.81	" "	532.56	" "	778.83	10,096.04
Hayward (1864), . . . . .	5,678.43	" "	292.16	" "	72.18	5,893.41
R. M. Hodges (balance), . . . . .	2,876.82	" "	122.43	" "		
Hollis (1774), . . . . .	2,445.29	Trans. from Fd.	395.68	Sp. Ex. .	2,112.75	782.17
Homer (1871), . . . . .	2,191.87	Interest . . .	125.92	" Books .	88.91	2,482.80
Jarvis (1885), . . . . .	505.36	" "	112.89	" "	52.98	2,251.78
Horatio King Fund (1913), . . . . .	10,010.51	" "	26.01	" "	21.41	509.96
Kittridge Anniversary Fund (1913), . . . . .	4,323.16	" "	515.52	" "	107.50	10,018.11
Lane (1863), . . . . .	5,402.33	" "	222.68	Annuities .	400.42	4,811.72
George C. Lodge and Joseph Trumbull Stickney Memorial Book Fund (1911), . . . . .	3,500.50	" "	278.20	Lib. Books .	284.07	5,504.86
Lowell (1881), . . . . .	31,934.75	" "	180.25	" "	139.76	3,540.99
Francis Cabot Lowell (1911), . . . . .	10,781.13	" "	1,644.65	" "	408.18	33,170.22
James Jackson Lowell (1917), . . . . .	20,381.66	" "	552.65	" "	104.00	11,179.78
Minot (1870), . . . . .	62,685.70	" "	1,049.67	" "	506.40	20,924.98
Charles Eliot Norton (1905), . . . . .	9,613.08	" "	3,228.33	" "	2,957.16	62,956.87
Amounts carried forward, \$17,563,552.01		" "	495.07	" "	666.32	9,441.78
Amounts carried forward, \$17,959,080.62						\$498,191.49 \$17,959,080.62

# LIBRARY (continued)

	Principal, July 1, 1917	Receipts	Expenditures	Suspense	Principal, June 30, 1918	Totals
Amounts brought forward, \$17,192,053.98						
Constantinus (1886), . . . . .	26,742.43	Interest . . . \$1,377.21	Lib. Books . \$520.50			\$98,181.78
Archibald C. Coolidge and Clarence L. Hay (1910), . . .	5,281.77	" . . . 273.03	" Books . 27.13			26,910.53
S. Newton Cutler (1912), . . .	1,009.53	" . . . 53.03	" " . 13.92			5,536.86
W. Bayard Cutting, Jr. Bequest (1910), . . . . .	12,698.11	" . . . 653.95	" " . 751.06			1,047.63
Horace Davis Bequest (1917), . . .	.....	Gift Cap. . . 10,000.00	" " .			12,601.00
5 Peter P. F. Degrand Bequest(1917),	75,842.76	Interest . . . 452.94	" " . 315.09	Cr. \$451.25		9,686.60
Denny (1875), . . . . .	5,565.84	Gift Cap. . . 12,183.15	" " .			91,037.33
Henry Weston Farnsworth Me- morial (1917), . . . . .	30,185.77	Interest . . . 4,403.68	" " . 298.20			5,559.29
Farrar (1871), . . . . .	5,620.59	" . . . 286.55	" " .			
John Hays Gardiner Memorial (1913), . . . . .	2,244.41	" . . . 1,554.53	Sp. Ex. . 957.50			30,782.35
Department of German (1915), . . .	2,933.38	" . . . 289.48	" Books . 36.22			5,879.35
Price Greenleaf (balance for books),	506.42	Trans. from Fd. 1,000.00	" " . 77.61			2,292.37
Price Greenleaf (for general ex- penses), . . . . .	.....	" " . 115.57	" " . 8.25			3,126.75
Charles Gross Memorial (1910), . .	1,714.43	Interest . . . 88.27	" " . 389.49			666.98
		" " . 16,512.25	G. Ex. . 16,512.25			.....
		Interest . . . 88.27	" Books . 32.23			1,770.47

# **George Silsbee and Ellen Sever**

<b>Hale Fund (balance), . . . . .</b>	<b>522.80</b>	<b>Interest . . .</b>	<b>26.98</b>						
		<b>Trans. from Fd.</b>	<b>311.01</b>	<b>Lib. Books .</b>	<b>819.16</b>				<b>541.58</b>
<b>Edward H. Hall (1913), . . . . .</b>	<b>10,600.86</b>	<b>Interest . . .</b>	<b>545.95</b>	<b>" " . .</b>	<b>277.13</b>				<b>10,869.68</b>
<b>Frederic Hilborn Hall Memorial</b>									
(1916), . . . . .	5,186.12	" . . .	267.08	" " . .	70.22				5,893.98
<b>Haven (1844), . . . . .</b>	<b>8,306.46</b>	" . . .	<b>165.11</b>	" " . .	<b>44.78</b>				<b>8,326.79</b>
<b>Hayes (1885), . . . . .</b>	<b>10,340.81</b>	" . . .	<b>522.56</b>	" " . .	<b>778.33</b>				<b>10,095.04</b>
<b>Hayward (1864), . . . . .</b>	<b>5,673.43</b>	" . . .	<b>292.16</b>	" " . .	<b>72.18</b>				<b>5,893.41</b>
<b>B. M. Hodges (balance), . . . . .</b>	<b>2,876.82</b>	" . . .	<b>122.42</b>						
		<b>Trans. from Fd.</b>	<b>395.68</b>	<b>" Sp. Ex. .</b>	<b>2,112.75</b>				<b>782.17</b>
<b>Hollis (1774), . . . . .</b>	<b>2,445.29</b>	<b>Interest . .</b>	<b>126.92</b>	<b>" Books .</b>	<b>86.31</b>				<b>2,482.30</b>
<b>Homer (1871), . . . . .</b>	<b>2,191.87</b>	" . . .	<b>112.89</b>	" " . .	<b>52.98</b>				<b>2,251.78</b>
<b>Jarvis (1885), . . . . .</b>	<b>505.36</b>	" . . .	<b>26.01</b>	" " . .	<b>21.41</b>				<b>509.96</b>
<b>Horatio King Fund (1913), . . . . .</b>	<b>10,010.51</b>	" . . .	<b>515.52</b>	" " . .	<b>107.50</b>				
				<b>Annuities .</b>	<b>400.42</b>				<b>10,018.11</b>
<b>Kittredge Anniversary Fund (1918), . . . . .</b>	<b>4,823.16</b>	" . . .	<b>222.68</b>	<b>Lib. Books .</b>	<b>284.07</b>				<b>4,811.72</b>
<b>Lane (1868), . . . . .</b>	<b>5,402.33</b>	" . . .	<b>278.20</b>	" " . .	<b>175.67</b>				<b>5,504.86</b>
<b>George C. Lodge and Joseph</b>									
<b>Trumbull Stickney Memorial</b>									
Book Fund (1911), . . . . .	8,500.50	" . . .	180.25	" " . .	189.76				8,540.99
<b>Lowell (1881), . . . . .</b>	<b>31,934.75</b>	" . . .	<b>1,644.65</b>	" " . .	<b>409.18</b>				<b>33,170.22</b>
<b>Francis Cabot Lowell (1911), . . . . .</b>	<b>10,781.13</b>	" . . .	<b>552.65</b>	" " . .	<b>104.00</b>				<b>11,179.78</b>
<b>James Jackson Lowell (1917), . . . . .</b>	<b>20,381.66</b>	" . . .	<b>1,049.67</b>	" " . .	<b>506.40</b>				<b>20,924.93</b>
<b>Minot (1870), . . . . .</b>	<b>62,685.70</b>	" . . .	<b>3,238.33</b>	" " . .	<b>2,957.16</b>				<b>62,966.87</b>
<b>Charles Eliot Norton (1905), . . . . .</b>	<b>9,613.03</b>	" . . .	<b>496.07</b>	" " . .	<b>666.32</b>				<b>9,441.78</b>
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<b>Amounts carried forward, \$17,563,582.01</b>									<b>\$498,191.49 \$17,929,030.62</b>

# LIBRARY (continued)

	Principal, July 1, 1917	Receipts	Expenditures	Suspense June 30, 1918	Principal, June 30, 1918	Totals
Amounts brought forward, \$17,563,582.01					\$498,191.49	\$17,929,080.62
Lucy Osgood (1878), . . . . .	7,504.85	Interest . . .	\$386.46 Lib. Books .	\$282.73	7,608.08	
Mary Osgood (1860), . . . . .	7,352.06	" . . .	378.63 " " . . .	65.93	7,664.76	
Francis Parkman Memorial (1908), . . . . .	6,092.27	" . . .	281.99 " " . . .	281.59	6,142.67	
George F. Parkman (for books) (1909), . . . . .	25,258.92	" . . .	1,300.84 " " . . .	1,431.85	25,137.91	
B. Osgood Peirce (1916), . . . .	1,038.37	" . . .	53.46 " " . . .	3.50	1,088.33	
James Mills Peirce Bequest (bal.),	593.92	" . . .	30.59 " " . . .	56.00	568.51	
Charles Elliott Perkins Memorial,	32.74	Gifts . . .	1,000.00 " " . . .	425.75	606.99	
Hugo Reisinger (1916), . . . . .	2,809.71	Interest . . .	134.41 " " . . .	6.98	2,797.14	
Sales (1892), . . . . .	3,916.67	" . . .	201.73 " " . . .	182.53	3,931.05	
Salisbury (1858), . . . . .	5,885.34	" . . .	303.08 " " . . .	3.38	6,185.09	
Stephen Salisbury (1907), . . . .	5,120.00	" . . .	263.68 " G. Ex. .	263.68	5,130.00	
Saver (1878), . . . . .	21,024.41	" . . .	1,092.74 " Books .	616.32	21,490.83	
Shapleigh (1801), . . . . .	4,074.15	" . . .	209.81 " " . . .	310.39	3,978.57	
Robert Gould Shaw (1916), . . .	50,740.50	" . . .	2,613.16 " Sp. Ex. .	2,500.00	50,863.66	
Amey Richmond Sheldon (1909),	303,971.78	" . . .	15,354.56 " G. " .	15,046.71	304,579.63	
Clement Lawrence Smith (1916),	1,055.90	" . . .	54.38 " Books .	3.88	1,106.40	
George B. Sohier Income for Books (balance), . . . . .	77.03	Trans. from Fd. .	138.37 " " . . .	114.69	86.71	
Strobel Memorial, Class of 1877 (1909), . . . . .	3,243.81	Interest . . .	167.07 " " . . .	70.04	3,340.84	
Strobel Memorial, Siam (1909), . .	2,191.49	" . . .	112.84 " " . . .	23.79	2,380.54	

Subscription for Library (1859), . . .	10,753.80	Interest . . .	553.78	Lib. Books .	475.76	.....	10,831.32
Sumner (1876), . . . . .	39,579.16	" . . .	2,088.32	" " .	1,228.80	.....	40,388.68
Kenneth Matheson Taylor (1899),	5,281.69	" . . .	272.02	" " .	189.63	.....	5,864.08
Elizabeth Torrey Bequest (1896),	1,324.28	" . . .	68.19	" " .	60.07	.....	1,382.40
Daniel Treadwell (1885), . . . .	12,122.37	" . . .	624.28	" " .	166.02	.....	12,368.49
				" G. Ex. .	812.14	.....	
<b>John Harvey Treat Book Fund</b>							
(1911), . . . . .	43,530.38	" . . .	2,691.52	" Books .	2,191.40	.....	44,080.50
Ishabod Tucker (1875), . . . .	5,331.26	" . . .	239.55	" " .	136.51	.....	5,424.30
20th Mass. Regiment of Volunteer							
Infantry (1910), . . . . .	951.37	" . . .	48.98		.....	.....	1,000.35
Wales Income for Books (balance),	665.75	Trans. from Fd.	800.00	" " .	799.44	.....	166.81
Walker (1875), . . . . .	16,520.65	Interest . .	850.83	" " .	643.14	.....	16,728.34
Ward (1868), . . . . .	5,543.49	" . . .	265.46	" " .	493.58	.....	5,845.37
<b>Julian Palmer Welsh Memorial</b>							
(1910), . . . . .	3,088.92	" . . .	159.08	" " .	224.27	.....	3,093.73
Evert Jansen Wendell, . . . . .	.....	" . . .	.....	" " .	5,595.56	Dr. 5,595.56	.....
J. Huntington Wolcott (1891), .	21,086.51	" . . .	1,088.40	" " .	1,109.06	.....	21,010.85
Chauncey Wright (1884), . . . .	1,245.44	" . . .	64.12		.....	.....	1,309.56
Eben Wright (1883), . . . . .	100,000.00	" . . .	5,150.00	" G. Ex. .	5,150.00	.....	100,000.00
Sundry gifts for books (balances), .	11,879.59	Gifts . . .	8,852.19	" Books .	4,718.09	.....	
		Interest . . .	213.44	Tr. to Gift for		.....	
				Sp. Services	482.25	.....	10,744.88
Duplicate money, . . . . .	433.85	Sales . . .	1,967.54	Lib. Books .	1,148.48	.....	1,252.91
Fines, . . . . .	307.34	Fines . . .	476.30	" " .	612.89	.....	170.75
Gifts for equipment of the Library, .	2,646.31	Interest . .	47.02	" Sp. Ex. .	1,895.96	.....	797.87
<b>Amounts carried forward, \$18,297,607.09</b>							<b>\$1,288,873.89 \$17,929,080.62</b>

LIBRARY (continued)				
	<i>Principal, July 1, 1917</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Principal, June 30, 1918 Totals</i>
Amounts brought forward, \$18,997,607.09 . . . . .				\$1,288,978.89 \$17,929,080.63
Gift of J. P. Morgan for certain ex- penses of the Library, . . . . .		Gift . . . \$2,500.00 Lib. Sp. Ex. . \$1,548.78		951.23
Gift for special services, . . . . .		Trans. from Gifts for Books 482.25 " " 482.25		
Gift for equipment of rest room at Library, . . . . .	80.11			80.11
Gift for frame for Chancellor portrait, .	145.54			145.54
				1,288,000.36

## DIVINITY SCHOOL

New Endowment (1879), . . . . .	\$71,677.02	Interest . .	\$3,691.36	Div. G. Ex. .	\$3,691.36	.....	\$71,677.02
Oliver Ames (1880), . . . . .	17,000.00	"	875.50	"	"	.....	17,000.00
Hannah O. Andrews (1886), . . . . .	525.00	"	27.04	"	"	.....	525.00
Daniel Austin (1880), . . . . .	1,115.26	"	57.42	"	"	.....	1,115.26
Adams Ayer (1869), . . . . .	1,000.00	"	51.50	"	"	.....	1,000.00
Joseph Baker (1876), . . . . .	15,275.00	"	786.66	"	"	.....	15,275.00
Beneficiary money returned (balance),	339.00	.....	.....	.....	.....	.....	339.00
Rushton Dashwood Burr (1894),	4,625.69	"	288.24	"	Sp. .	.....	4,648.64
Bussey Professorship (1862), . . . . .	37,583.74	"	1,985.58	"	Sal. . .	.....	37,583.74
Joshua Clapp (1836), . . . . .	2,177.95	"	112.16	"	G. Ex. .	.....	2,177.95
Edwin Conant (1892), . . . . .	5,000.00	"	267.50	"	"	.....	5,000.00
Dexter Lectureship (1810), . . . . .	25,544.37	"	1,815.52	"	Sal. . .	.....	25,544.37
Prothingham Professorship (1892),	58,708.14	"	3,028.20	"	"	.....	58,708.14
Abraham W. Fuller (1847), . . . . .	1,090.00	"	54.08	"	G. Ex. .	.....	1,090.00

Lewis Gould (1859), . . . . .	911.84	Interest . . .	46.93	Div. G. Ex. .	46.93	.....	911.84
Louisa J. Hall (1899), . . . . .	6,188.50	" . . .	317.65	" Sp. " .	264.31	.....	6,231.84
Hancock Professorship, . . . . .	6,008.43	" . . .	309.41	" Sal. . .	309.41	.....	6,008.43
Composed of these Funds:—							
Thomas Hancock (1765),							
Stephen Sewall (1769).							
Charles L. Hancock (1891), . . .	152,369.76	" . . .	8,864.50	Coll. " . .	5,673.91	.....	152,369.76
Haven (1898), . . . . .	5,000.00	" . . .	257.50	" G. Ex. .	257.50	.....	5,000.00
Samuel Hoar (1857), . . . . .	1,050.00	" . . .	54.07	" " .	54.07	.....	1,050.00
Hollis Professorship of Divinity, . .	34,517.60	" . . .	1,777.68	" Sal. . .	1,777.68	.....	34,517.60
Composed of these Funds:—							
William Dummer (1762),							
Daniel Henchman (1749),							
Thomas Hollis (1721),							
Jonathan Mason (1798),							
James Townsend (1738).							
Henry P. Kidder (1881), . . . . .	10,000.00	" . . .	515.00	Div. G. Ex. .	515.00	.....	10,000.00
Henry Lienow (1841), . . . . .	9,184.69	" . . .	473.08	" " .	473.08	.....	9,184.69
Caroline Merriam (1867), . . . . .	1,050.00	" . . .	54.07	" " .	54.07	.....	1,050.00
Parkman Professorship (1814), . .	16,015.81	" . . .	824.83	" Sal. . .	824.83	.....	16,015.81
Francois Greenwood Peabody Pro- fessorship (1917), . . . . .	25,352.67	Gift Cap. . .	25.00				
		Interest . . .	1,306.61	" . . .	1,306.61	.....	25,377.67
John W. Quincy (1898), . . . . .	678.41	" . . .	34.93	" Sp. Ex. .	18.53	.....	694.80
Abby Crocker Richmond (1881),	1,000.00	" . . .	51.50	" G. " .	51.50	.....	1,000.00
Amounts carried forward, \$18,808,706.12							\$511,041.06 \$19,164,080.89

# LIBRARY (continued)

	<i>Principal, July 1, 1917</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense June 30, 1918</i>	<i>Principal Totals</i>
Amounts brought forward, \$18,997,607.09					\$1,288,878.39 \$17,929,089.63
Gift of J. P. Morgan for certain expenses of the Library, . . . . .		Gift . . . \$2,500.00 Lib. Sp. Ex. . \$1,548.78			951.22
Gift for special services, . . . . .		Trans. from			
		Gifts for Books 482.25 " " 482.25			
Gift for equipment of rest room at Library, . . . . .	30.11				30.11
Gift for frame for Chauncer portrait, .	145.54				145.54
					<u>1,288,878.39</u>

## DIVINITY SCHOOL

12 New Endowment (1879), . . . . .	\$71,677.02	Interest . . . \$3,691.36 Div. G. Ex. . \$3,691.36			\$71,677.02
Oliver Ames (1880), . . . . .	17,000.00	" " 875.50 " " 875.50			17,000.00
Hannah C. Andrews (1886), . . .	525.00	" " 27.04 " " 27.04			525.00
Daniel Austin (1880), . . . . .	1,115.26	" " 57.42 " " 57.42			1,115.26
Adams Ayer (1869), . . . . .	1,000.00	" " 51.50 " " 51.50			1,000.00
Joseph Baker (1876), . . . . .	15,275.00	" " 786.66 " " 786.66			15,275.00
Beneficiary money returned (balance),	339.00				339.00
Rushton Dashwood Burr (1894),	4,648.64	" " 215.29			4,648.64
Bussey Professorship (1862), . . .	37,588.74	" " 1,985.58 " Sal. . . 1,985.58			37,588.74
Joshua Clapp (1886), . . . . .	2,177.95	" " 112.16 " G. Ex. . 112.16			2,177.95
Edwin Conant (1892), . . . . .	5,000.00	" " 257.50 " " 257.50			5,000.00
Dexter Lecturehip (1810), . . . .	25,544.37	" " 1,315.52 " Sal. . . 1,315.52			25,544.37
Frothingham Professorship (1892),	58,708.14	" " 3,028.20 " " 3,028.20			58,708.14
Abraham W. Fuller (1847), . . .	1,080.00	" " 54.08 " G. Ex. . 54.08			1,080.00

Lewis Gould (1853), . . . . .	911.34	Interest . . .	46.92	Div. G. Ex. .	46.92	911.34
Louisa J. Hall (1898), . . . . .	6,168.50	" . . .	317.65	" Sp. " .	264.31	6,231.84
Hancock Professorship, . . . . .	6,008.43	" . . .	309.41	" Sal. . .	309.41	6,008.43
Composed of these Funds :—						
Thomas Hancock (1765), Stephen Sewall (1763).						
Charles L. Hancock (1891), . . .	152,369.76	" . . .	8,864.50	Coll. " . .	5,673.91	152,869.76
Haven (1898), . . . . .	5,000.00	" . . .	257.50	" G. Ex. .	257.50	5,000.00
Samuel Hoar (1867), . . . . .	1,050.00	" . . .	54.07	" " .	54.07	1,050.00
Hollis Professorship of Divinity, . .	34,517.60	" . . .	1,777.68	" Sal. . .	1,777.68	34,517.60
Composed of these Funds :—						
William Dummer (1762), Daniel Henchman (1743), Thomas Hollis (1731), Jonathan Mason (1798), James Townsend (1738).						
Henry P. Kidder (1891), . . . . .	10,000.00	" . . .	515.00	Div. G. Ex. .	515.00	10,000.00
Henry Lienow (1841), . . . . .	9,184.69	" . . .	473.08	" " .	473.08	9,184.69
Caroline Merriam (1867), . . . . .	1,050.00	" . . .	54.07	" " .	54.07	1,050.00
Parkman Professorship (1814), . .	16,015.81	" . . .	824.83	" Sal. . .	824.83	16,015.81
Francis Greenwood Peabody Pro- fessorship (1917), . . . . .	25,352.67	Gift Cap. . .	25.00			
John W. Quincy (1898), . . . . .	678.41	Interest . . .	1,306.61	" " . .	1,306.61	25,377.67
Abby Crocker Richmond (1881), . .	1,000.00	" . . .	34.92	" Sp. Ex. .	18.53	694.80
		" . . .	51.50	" G. " .	51.50	1,000.00
Amounts carried forward, \$18,808,706.12						\$511,041.06 \$19,164,080.88

# DIVINITY SCHOOL (continued)

	Principal, July 1, 1917	Receipts	Expenditures	Suspense	Principal, June 30, 1918	Totals
Amounts brought forward, \$18,908,706.12					\$511,041.06	\$19,164,080.88
John L. Russell (1890), . . . . .	1,000.00	Interest . . .	\$51.50 Div. G. Ex. .	\$51.50	1,000.00	
William B. Spooner (1890), . . .	10,000.00	" . . .	515.00 " " .	515.00	10,000.00	
Thomas Trileston of New York Endowment (1879), . . . . .	40,000.00	" . . .	2,060.00 " " .	2,060.00	40,000.00	
Mary P. Townsend (1861), . . .	5,850.00	" . . .	270.88 " " .	270.88	5,850.00	
Winthrop Ward (1863), . . . . .	2,100.00	" . . .	108.15 " " .	108.15	2,100.00	
Winn Professorship (1877), . . .	61,845.73	" . . .	3,185.07 " Sal. . .	2,895.07	62,845.73	
Augustus Woodbury Bequest (1909), . . . . .	1,038.30	" . . .	53.46 " G. Ex. .	53.46	1,038.30	
Gifts for Library purposes, . . . .	4,018.31		..... " Sp. " .	3,857.53	660.78	
Gifts for salaries, . . . . .	.....	Gift . . .	1,000.00 " Sal. . .	1,000.00	.....	633,435.77

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## SCHOLARSHIP AND BENEFICIARY

Robert Charles Billings Prize (1904), . . . . .	\$2,969.79	Interest . . .	\$152.95 Div. Prize .	\$100.00		\$3,022.74
Abner W. Buttrick (1880), . . . .	13,955.21	" . . .	718.68 " Sch. . .	730.13		13,943.76
Thomas Cary (1820), . . . . .	6,033.02	" . . .	310.70 " " .	275.00		6,068.72
George Chapman (1884), . . . . .	3,016.79	" . . .	155.38 " " .	72.73		3,099.44
Joshua Clapp (1839), . . . . .	4,884.40	" . . .	251.53 " " .	308.68		4,832.25
Jackson Foundation (1835), . . . .	15,914.07	" . . .	819.57 " " .	582.51		16,151.13
J. Henry Kendall (1863), . . . . .	6,109.87	" . . .	314.66 " " .	260.00		6,174.53
Nancy Kendall (1846), . . . . .	3,792.06	" . . .	192.20 " " .	177.27		3,746.99
John C. Kimball (1912), . . . . .	539.89	" . . .	27.30 " " .	87.09		520.10
William Pomroy (1885), . . . . .	1,072.04	" . . .	55.21 " " .	55.20		1,072.05
						58,631.71

# LAW SCHOOL

Law School Endowment (1918), . . .	.....	Gifts Cap. . . \$6,250.00							
		Interest . . .	52.01	Law G. Ex. .	\$52.01				\$6,250.00
Ames (1910), . . . . .	\$10,563.67	" . . .	544.05	" Sp. "	563.67				10,544.05
Samuel Ames Bequest (1916), . .	2,000.00	" . . .	103.00	" " "	103.00				2,000.00
James and Augusta Barnard									
Law (1912), . . . . .	106,605.01	" . . .	5,208.87	" " "	5,208.87				106,605.01
Bemis Professorship (1879), . . .	109,646.97	" . . .	5,646.82	" Sal. .	5,646.82				109,646.97
Bussey Professorship (1862), . . .	26,214.79	" . . .	1,298.57						26,513.86
Byrne Professorship of Administrative									
Law (1917), . . . . .	.....	Gift Cap. . .	129,959.00						
		Interest . . .	4,960.07						134,919.07
James C. Carter Professorship									
(1906), . . . . .	107,325.02	" . . .	5,527.24	" " "	5,527.24				107,325.02
Dane Professorship (1829), . . . .	16,561.13	" . . .	852.89						17,414.02
Royall Professorship (1781), . . .	8,340.81	" . . .	439.56	" " "	439.56				8,340.81
Ezra Ripley Thayer Teaching									
Fellowship (1915), . . . . .	26,112.13	" . . .	1,344.77	" " "	1,000.00				26,456.90
Weld Professorship (1882), . . .	94,994.97	" . . .	4,892.24	" " "	4,892.24				94,994.97
									651,010.18
BOOK FUNDS									
Gift of James Munson Barnard									
and Augusta Barnard (balance),		Interest . . .	\$41.46	Law Sp. Ex.	\$66.79				\$1,011.15
John L. Cadwalader (1914), . .	\$1,036.48	" . . .	1,080.00	" " "	1,080.00				20,000.00
Law School Book (1889), . . . .	20,000.00	" . . .	2,421.58	" " "	2,421.58				47,021.25
Law School Library (1898), . . . .	47,021.25	" . . .	5,150.00	" " "	5,150.00				100,000.00
	100,000.00	" . . .							168,032.40
Amounts carried forward, \$19,667,597.73									\$20,675,140.94

# LAW SCHOOL (continued)

<i>Principal, July 1, 1917</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense June 30, 1918</i>	<i>Principal, Totals</i>
Amounts brought forward, \$19,667,597.78				\$20,676,140.94
SCHOLARSHIP, BENEFICIARY, AND PRIZE				
James Barr Ames Prize (1898), . .	\$5,227.69	Interest . . . \$269.24	.....	\$5,496.93
Addison Brown Prize (1914), . .	2,808.47	" . . . 144.61	.....	2,953.08
James Coolidge Carter Loan (1906), . . . . .	14,418.76	" . . . 742.32	.....	
		Loans repaid 404.44	Law B. F. . . \$742.32	14,818.20
Samuel Phillips Prescott Fay, 1798, Fund and Scholarship (1907), .	5,410.74	Interest . . . 278.67	.....	5,689.41
George Fisher Scholarship (1906), .	4,060.43	" . . . 209.09	" Sch. . . 210.43	4,059.09
Langdell (1909), . . . . .	28,098.23	" . . . 1,447.05	" " . . 1,150.00	28,995.28
Harry Milton Levy Loan (Law) (balance), . . . . .		Loans repaid 168.51	" B. F. . . 168.51	.....
M. J. and Jennie Mack Loan (1916), . . . . .	1,088.47	Interest . . . 41.54	.....	1,080.01
Scholarship Money Returned, . . .	743.07	Loans repaid 2,452.96	" " . . 2,564.17	641.86
Joshua Montgomery Sears, Jr. Memorial Fund for Prizes (1912), .	36,928.81	Interest . . . 1,871.53	" " . . 1,500.00	37,994.84
Gift for Law School Deficit, . . . .	.....	Gift . . . 100.00	" G. Ex. 100.00	.....
" " Purchase of Portraits, . . . .	.....	" . . . 225.00	" Sp. " 225.00	.....
				100,428.70

# SCHOOLS OF ARCHITECTURE AND LANDSCAPE ARCHITECTURE

<b>Julia Amory Appleton Fellowship</b> (1906), . . . . .	\$24,517.94	Interest . . . \$1,262.68	Arch. Fell. . . . .	\$25,530.63
<b>The Dept. of Architecture and Landscape Architecture Additions Fund</b> (1916), . . . . .	228,146.37	" . . . 11,749.52	" Sp. Ex. . . . .	239,050.68
<b>Bright Scholarship</b> , . . . . .	.....	Trans. from Fd. 88.38	" Sch. . . . .	.....
<b>Francis H. Cummings Scholarship</b> (1898), . . . . .	6,984.71	Interest . . . 357.15	.....	7,291.86
<b>Charles Elliot Travelling Fellowship</b> (1916), . . . . .	28,394.33	" . . . 1,462.29	.....	29,856.62
<b>Revere Family Memorial</b> (1912), . . . . .	20,750.67	" . . . 1,068.68	" Sp. Ex. . . . .	21,089.91
<b>Nelson Robinson, Jr.</b> (1899), . . . . .	580,000.00	" . . . 29,870.00	" G. " 23,870.00	586,000.00
<b>Arthur Rotch</b> (1896), . . . . .	26,000.00	" . . . 1,287.50	" Sal. . . . .	26,000.00
<b>Gurdon Saltonstall</b> (1901), . . . . .	60,000.00	" . . . 3,090.00	" " . . . . .	60,000.00
<b>Josiah Stickney</b> (1899), . . . . .	11,791.87	" . . . 607.29	" " . . . . .	11,791.87
				1,005,611.56

# SCHOOLS OF ENGINEERING AND MINING

<b>Hennen Jennings Scholarship</b> (1898), . . . . .	\$12,882.43	Interest . . . \$663.42	.....	\$13,545.85
<b>Henry Weidemann Locke Scholarship</b> , Gift (balance), . . . . .	200.00	" . . . 10.30	.....	210.30
<b>Professorship of Engineering</b> (1847), . . . . .	40,805.73	" . . . 2,101.51	Engin. Sal. . . . .	40,805.73
<b>Gift Ernest B. Dane</b> — Research in Sanitary Engineering, . . . . .	1,200.83	" . . . 28.86	" Sp. Ex. . . . .	1,124.01
<b>Amounts carried forward</b> , \$20,806,946.78 . . . . .				\$55,685.89
				\$31,781,181.20

# LAW SCHOOL (continued)

<i>Principal, July 1, 1917</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense June 30, 1918</i>	<i>Principal, Totals</i>
Amounts brought forward, \$19,687,597.78				\$90,676,140.94
<b>SCHOLARSHIP, BENEFICIARY, AND PRIZE</b>				
James Barr Ames Prize (1898), . .	\$5,227.69	Interest . . . \$869.24	.....	\$5,496.93
Addison Brown Prize (1914), . .	2,808.47	" . . . 144.61	.....	2,953.08
James Coolidge Carter Loan (1906), . . . . .	14,418.76	" . . . 742.82	.....	
		Loans repaid 404.44	Law B. F. . . \$742.82	14,818.20
Samuel Phillips Prescott Fay, 1798, Fund and Scholarship (1907), .	5,410.74	Interest . . . 278.67	.....	5,689.41
George Fisher Scholarship (1906), .	4,060.43	" . . . 209.09	" Sch. . . 210.43	4,069.09
Langdell (1909), . . . . .	28,098.28	" . . . 1,447.05	" " . . 1,150.00	28,395.28
Harry Milton Levy Loan (Law) (balance), . . . . .		Loans repaid 168.51	" B. F. . . 168.51	.....
M. J. and Jennie Mack Loan (1916), . . . . .	1,088.47	Interest . . . 41.54	.....	1,080.01
Scholarship Money Returned, . . .	743.07	Loans repaid 2,452.96	" " . . 2,554.17	641.86
Joshua Montgomery Sears, Jr. Memorial Fund for Prizes (1912), .	36,928.31	Interest . . . 1,871.53	" " . . 1,500.00	37,394.84
Gift for Law School Deficit, . . . .	.....	Gift . . . 100.00	" G. Ex. 100.00	.....
" " Purchase of Portraits, . . . .	.....	" . . . 225.00	" Sp. " 225.00	.....
				100,428.70

# SCHOOLS OF ARCHITECTURE AND LANDSCAPE ARCHITECTURE

<b>Julia Amory Appleton Fellowship</b> (1906), . . . . .	\$24,517.94	Interest . . . \$1,262.68	Arch. Fell. . . . .	\$250.00	.....	\$25,580.62
<b>The Depts. of Architecture and Landscape Architecture Additions Fund</b> (1916), . . . . .	228,146.87	" . . . 11,749.52	" Sp. Ex. . . . .	845.21	.....	239,080.68
<b>Bright Scholarship</b> , . . . . .	.....	Trans. from Fd. 88.38	" Sch. . . . .	88.38	.....	.....
<b>Francis H. Cummings Scholarship</b> (1898), . . . . .	6,984.71	Interest . . . 357.15	.....	.....	.....	7,291.86
<b>Charles Elliot Travelling Fellowship</b> (1916), . . . . .	28,894.88	" . . . 1,462.99	.....	.....	.....	29,856.62
<b>Revere Family Memorial</b> (1918), . . . . .	20,750.67	" . . . 1,068.68	" Sp. Ex. . . . .	729.44	.....	21,089.91
<b>Nelson Robinson, Jr.</b> (1899), . . . . .	580,000.00	" . . . 29,870.00	" G. " . . . .	23,870.00	.....	586,000.00
<b>Arthur Rotch</b> (1896), . . . . .	26,000.00	" . . . 1,287.50	" Sal. . . . .	1,287.50	.....	26,000.00
<b>Gurdon Saltonstall</b> (1901), . . . . .	60,000.00	" . . . 3,090.00	" " . . . .	3,090.00	.....	60,000.00
<b>Josiah Stickney</b> (1899), . . . . .	11,791.87	" . . . 607.29	" " . . . .	607.29	.....	11,791.87
						1,005,611.56

# SCHOOLS OF ENGINEERING AND MINING

<b>Hennen Jennings Scholarship</b> (1898), . . . . .	\$12,862.43	Interest . . . \$683.42	.....	.....	.....	\$13,545.85
<b>Henry Weidemann Locke Scholarship. Gift (balance)</b> , . . . . .	300.00	" . . . 10.80	.....	.....	.....	210.80
<b>Professorship of Engineering</b> (1847), . . . . .	40,805.78	" . . . 2,101.51	Engin. Sal. . . . .	\$2,101.51	.....	40,805.78
<b>Gift Ernest B. Dane — Research in Sanitary Engineering</b> , . . . . .	1,900.88	" . . . 28.86	" Sp. Ex. . . . .	100.68	.....	1,124.01
<b>Amounts carried forward</b> , \$20,806,946.78 . . . . .						\$55,685.89
						\$21,781,181.20

# SCHOOLS OF ENGINEERING AND MINING (continued)

	Principal, July 1, 1917	Receipts	Expenditures	Suspense June 30, 1918	Principal Totals
Amounts brought forward, \$20,806,946.78					\$55,685.89 \$31,781,181.20
Gift for Laboratory of Metallurgical Chemistry, . . . . .	13.97	"			\$13.97
Gift Summer course Mining Camp, . .	1,071.27	Interest . .	\$42.85		1,114.12
Edward Whitney Bequest (1916),	12,142.00	"	625.31 Eng. G. Ex. .	\$625.31	12,142.00
					63,955.98

## GRADUATE SCHOOL OF BUSINESS ADMINISTRATION

Business School Endowment (1912), .	\$68,220.00	Gift Cap. . .	\$2,000.00			
Edmund Cogswell Converse		Interest . . .	3,349.25	Gr.Bus. G. Ex.	\$3,349.25	\$65,220.00
Professorship of Banking (1912), . .	134,324.47	"	6,917.68	"	Sal. . .	5,500.00
James J. Hill (1916), . . . . .	125,000.00	"	6,487.50	"	Sp.Ex. .	67.25
James J. Hill Professorship of Transportation (1915), . . . . .	126,889.78	"	6,582.26	"	G. "	6,487.50
Isidor Straus Memorial (1912), . .	10,022.13	"	516.65	"	Sal. . .	5,500.00
Deficit Fund, . . . . .	2,200.00	Gifts . . .	14,475.00	"	"	500.00
Business School Loan Fund, . . . . .	1,654.40	"	150.00	"	G. Ex.	15,975.00
		Interest . . .	28.88			700.00
Business School Publication Fund, . .	194.87	Loans repaid	1,257.98	"	B. F.	1,417.94
Bureau of Business Research Publication Fund, . . . . .	47.80			"		1,678.22
		Interest . . .	12.26			194.87
		Sales . . . .	1,286.17	"	Sp. Ex.	841.00
						504.78

Gift for Outside Lectures, . . . . .	.....	Gift . . .	100.00	Gr.Bus.Sp.Ex.	100.00	.....	.....
Gift for Books on Transportation, . .	206.43	" . . .	200.00	" " "	84.87	.....	321.56
Gift of P. E. Fitzpatrick for Books, .	34.55	" . . .	150.00	" " "	75.16	.....	109.89
Gift for Hodgson Prize, . . . . .	25.00	" . . .	.....	" " "	.....	.....	25.00
Gift of George B. Leighton, for binding books, . . . . .	.25	" . . .	.....	" " "	.....	.....	.25
Gift for George O. May Prizes, . .	.....	" . . .	150.00	" " B.F..	150.00	.....	.....
Gift of Frederick I. and John C. Olmsted, Books on Accounting, .	394.66	" . . .	100.00	" " Sp.Ex.	292.05	.....	202.61
Gifts for Printing Courses, . . . . .	.....	" . . .	100.00	" " "	100.00	.....	.....
Gift of Warren D. Robbins — South American Course, . . . . .	30.78	" . . .	.....	" " "	.....	.....	30.78
Gift for Books and other Material on Scientific Management, . . . . .	2.15	" . . .	.....	" " "	.....	.....	2.15
Gift of John R. Simpson for Books, .	94.77	" . . .	.....	" " "	13.78	.....	80.99
Gift of Joseph E. Sterrett, Books on Accounting, . . . . .	228.71	" . . .	100.00	" " "	57.74	.....	270.97
							467,862.24

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# MUSEUM OF COMPARATIVE ZOOLOGY

Alexander Agassiz Bequest (1910),	\$99,500.00	Interest . . . \$3,064.25	Allowance from Univ. . .	2,060.00	M.C.Z.G. Ex.	\$5,124.25	.....	\$99,500.00
Alexander Agassiz Bequest for Publications (1910), . . . . .	86,987.10	Interest . . . 4,477.26	"	Sp. "	4,782.57	.....	86,631.79	
Agassiz Memorial (1875), . . . . .	297,938.10	" . . . 15,843.55	"	G. "	15,843.55	.....	297,938.10	
George R. Agassiz (1911), . . . . .	50,000.00	" . . . 2,575.00	"	"	2,575.00	.....	50,000.00	
George R. Agassiz Special (1912),	50,000.00	" . . . 2,575.00	"	"	2,575.00	.....	50,000.00	
Amounts carried forward, \$21,869,004.47		.....	.....	.....	.....	.....	\$584,064.89	
							\$22,317,999.42	

# SCHOOLS OF ENGINEERING AND MINING (continued)

	<i>Principal, July 1, 1917</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Principal, June 30, 1918</i>	<i>Totals</i>
Amounts brought forward, \$20,806,946.78				\$55,685.89	\$21,781,181.20
Gift for Laboratory of Metallurgical Chemistry, . . . . .	13.97	"			\$13.97
Gift Summer course Mining Camp, . .	1,071.27	Interest . .	\$42.85		1,114.12
Edward Whitney Bequest (1916),	12,142.00	"	625.31 Eng. G. Ex. .	\$625.31	12,142.00
					68,955.98

## GRADUATE SCHOOL OF BUSINESS ADMINISTRATION

Business School Endowment (1912), .	\$63,220.00	Gift Cap. . .	\$2,000.00			\$65,220.00
Edmund Cogswell Converse		Interest . . .	3,349.25	Gr.Bus.G.Ex.	\$3,349.25	
Professorship of Banking (1912), . .	134,324.47	"	6,917.68	"	Sal. .	5,500.00
		"	6,437.50	"	Sp.Ex.	67.25
James J. Hill (1915), . . . . .	125,000.00	"	6,437.50	"	G.	6,437.50
James J. Hill Professorship of Transportation (1915), . . . . .	126,839.78	"	6,532.26	"	Sal. .	5,500.00
Isidor Straus Memorial (1912), . .	10,032.18	"	516.65	"	"	500.00
Deficit Fund, . . . . .	2,200.00	Gifts . . .	14,475.00	"	G.Ex.	15,975.00
Business School Loan Fund, . . . . .	1,654.40	"	150.00			700.00
		Interest . . .	28.83			
Business School Publication Fund, . .	124.87	Loans repaid	1,257.98	"	B. F.	1,417.94
Bureau of Business Research Publication Fund, . . . . .	47.80	Interest . . .	12.26			
		Sales . . . .	1,286.17	"	Sp.Ex.	841.00
						504.78

Gift for Outside Lectures, . . . . .	.....	Gift . . .	100.00	Gr.Bus.Sp.Ex.	100.00	.....	.....
Gift for Books on Transportation, . .	206.48	" . . .	200.00	" " "	84.87	.....	321.56
Gift of P. E. Fitzpatrick for Books,	84.55	" . . .	150.00	" " "	75.16	.....	109.89
Gift for Hodgson Prize, . . . . .	25.00	" . . .	.....	" " "	.....	.....	25.00
Gift of George B. Leighton, for binding books, . . . . .	.25	" . . .	.....	" " "	.....	.....	.25
Gift for George O. May Prizes, . .	.....	" . . .	150.00	" " B.F.	150.00	.....	.....
Gift of Frederick L. and John C. Olmsted, Books on Accounting, .	394.66	" . . .	100.00	" " Sp.Ex.	293.05	.....	202.61
Gifts for Printing Courses, . . . . .	.....	" . . .	100.00	" " "	100.00	.....	.....
Gift of Warren D. Robbins — South American Course, . . . . .	30.78	" . . .	.....	" " "	.....	.....	30.78
Gift for Books and other Material on Scientific Management, . . . . .	2.15	" . . .	.....	" " "	.....	.....	2.15
Gift of John R. Simpson for Books,	94.77	" . . .	.....	" " "	18.78	.....	80.99
Gift of Joseph E. Sterrett, Books on Accounting, . . . . .	228.71	" . . .	100.00	" " "	57.74	.....	270.97
							467,862.24

# MUSEUM OF COMPARATIVE ZOOLOGY

Alexander Agassiz Bequest (1910),	\$99,500.00	Interest . . . \$3,064.25	Allowance from Univ. . . 2,080.00	M.C.Z.G.Ex.	\$5,124.25	.....	\$99,500.00
Alexander Agassiz Bequest for Publications (1910), . . . . .	86,987.10	Interest . . . 4,477.26	" " "	Sp. "	4,782.57	.....	86,881.79
Agassiz Memorial (1875), . . . . .	297,938.10	" . . . 15,348.55	" " "	G. "	15,848.55	.....	297,938.10
George R. Agassiz (1911), . . . . .	50,000.00	" . . . 2,575.00	" " "	" " "	2,575.00	.....	50,000.00
George R. Agassiz Special (1912),	50,000.00	" . . . 2,575.00	" " "	" " "	2,575.00	.....	50,000.00
Amounts carried forward, \$21,869,004.47	.....	.....	.....	.....	.....	.....	\$584,064.89
							\$22,317,999.42

# MUSEUM OF COMPARATIVE ZOOLOGY (continued)

	<i>Principal, July 1, 1917</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense June 30, 1918</i>	<i>Principal Totals</i>
Amounts brought forward, \$21,869,004.47					
Louis Cabot (1917), . . . . .	5,107.94	Interest . . . . .	\$268.06 M. C. Z. Sp. Ex. \$154.38		\$584,064.89 \$22,817,999.42
Virginia Barret Gibbs Scholarship (1892), . . . . .	6,794.65	" . . . . .	349.94 " " 325.00		5,216.62
Gray Fund for Zoological Museum (1859), . . . . .	50,000.00	" . . . . .	2,575.00 " " 2,575.00		6,819.59
Sturgis Hooper (1865), . . . . .	107,418.18	" . . . . .	5,532.08 " " 5,714.00		50,000.00
Humboldt (1869), . . . . .	8,474.13	" . . . . .	486.41 " " 375.00		107,286.21
Willard Peete Hunnewell (1901), . . . . .	5,605.49	" . . . . .	288.66 " " 288.66		8,535.54
Permanent (1859), . . . . .	117,469.84	" . . . . .	6,049.65 " G. " 6,049.65		5,605.49
Teachers' and Pupils' (1875), . . . . .	7,594.01	" . . . . .	391.09 " " 391.09		117,469.84
Maria Whitney (1907), . . . . .	6,442.96	" . . . . .	331.84 " Sp. " 123.90		7,594.01
Maria Whitney and James Lyman Whitney (1912), . . . . .	341.38	Gift Cap. . . . .	58.75		6,650.90
		Interest . . . . .	19.67		
					419.80
					899,613.39

## GERMANIC MUSEUM

Germanic Museum (1909), . . . . .	\$10,013.52	Interest . . . . .	\$515.72 Ger. Mus. G. Ex. \$515.72		\$10,013.52
Germanic Museum Building (1908), . . . . .	56,247.08	" . . . . .	1,194.94 F. & G. Sp. " 19,310.23		38,061.79
Germanic Museum Endowment (1909), . . . . .	70,213.05	" . . . . .	8,615.97 Ger. Mus. G. " 1,083.12		72,795.90
Emperor William (1906), . . . . .	26,385.00	" . . . . .	1,356.25 " " 1,356.25		26,385.00
Hugo Reisinger Bequest (1916), . . . . .	26,585.68	" . . . . .	1,369.18		27,954.86

Gift for work of art, . . . . .	1,419.91	Interest . . .	11.95	Ger. Mus. Sp. Ex. 1,150.00	.....	281.86
Gifts for Collections for Germanic Museum, . . . . .	822.52	.....	.....	.....	.....	822.52
						<u>175,765.45</u>

# PEABODY MUSEUM OF AMERICAN ARCHAEOLOGY AND ETHNOLOGY

Henry W. Haynes Bequest (1912), . . . . .	\$1,000.00	Interest . . .	\$51.50	P. M. G. Ex. .	\$51.50	.....	\$1,000.00
Hemenway Fellowship (1891), . . . . .	13,894.40	" . . .	686.70	.....	.....	.....	14,021.10
Mary Hemenway Fund for Archaeology (1910), . . . . .	46,345.85	" . . .	2,386.82	" Sp.	3,074.36	.....	45,658.31
Francis Cabot Lowell Memorial (1912), . . . . .	1,000.00	" . . .	51.50	" G.	51.50	.....	1,000.00
Peabody Building (1866), . . . . .	28,355.56	" . . .	1,489.73	" "	1,489.73	.....	28,355.56
Peabody Collection (1866), . . . . .	47,835.10	" . . .	2,486.81	" "	2,486.81	.....	47,835.10
Peabody Professor (1866), . . . . .	47,835.10	" . . .	2,486.81	" "	2,486.81	.....	47,835.10
Frederic Ward Putnam (1915), . . . . .	202.89	" . . .	10.45	.....	.....	.....	213.34
Thaw Fellowship (1890), . . . . .	30,204.16	" . . .	1,206.69	" Sp.	1,205.85	.....	30,205.00
Henry C. Warren Exploration (1899), . . . . .	10,141.88	" . . .	522.31	" "	459.64	.....	10,204.55
Susan Cornelia Warren (1902), . . . . .	5,000.00	" . . .	257.50	" G.	257.50	.....	5,000.00
Robert C. Winthrop Scholarship (1895), . . . . .	6,976.67	" . . .	359.31	" Sp.	275.00	.....	7,060.98
Huntington Frothingham Wolcott (1891), . . . . .	20,578.06	" . . .	1,059.76	" "	649.30	.....	20,988.52
Gifts for current use, . . . . .	3,021.74	Gifts . . .	1,115.53	.....	.....	.....	.....
		Interest . . .	67.72	" "	2,441.81	.....	1,763.18
							<u>260,140.74</u>

Amounts carried forward, \$22,686,220.72 . . . . . \$23,653,518.00

# MEDICAL SCHOOL

	<i>Principal, July 1, 1917</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense June 30, 1918</i>	<i>Principal, Totals</i>
Amounts brought forward, \$22,686,220.72					\$28,653,518.00
Harvard Medical Alumni (1907), . . . . .	9,321.16	Interest . . . \$480.03			9,801.19
Anonymous Fund in the Department of Theory and Practice (1906), . . . . .	10,363.78	" . . . 533.75 Med. Sal. .	\$533.75		10,363.78
Edward Austin (Bacteriological Laboratory) (1899), . . . . .	10,748.11	" . . . 533.52 " Sp. Ex.	513.39		10,788.24
Edward M. Barringer (1881), . . . . .	30,271.54	" . . . 1,559.02 " G. "	1,059.02		
			Sch. . . . .	500.00	30,271.54
Francis Bartlett Free Bcd (1914), . . . . .	5,000.00	" . . . 257.50 " Sp. Ex.	257.50		5,000.00
Robert C. Billings (1900), . . . . .	100,000.00	" . . . 5,000.00 " G. "	5,000.00		100,000.00
J. Ingersoll Bowditch (1889), . . . . .	10,047.91	" . . . 517.47 " Sp. "	523.80		10,041.58
Boylston Fund for Medical Books (1800), . . . . .	1,868.97	" . . . 96.25			1,965.22
Brinckerhoff Fund (1911), . . . . .	5,594.31	" . . . 288.09 " Sal. . .	500.00		5,382.40
John B. and Buckminster Brown Endowment (1896), . . . . .	68,701.24	" . . . 3,426.30 " " . .	3,000.00		69,137.54
Bullard Professorship of Neuropa- thology (1906), . . . . .	86,499.63	" . . . 4,454.75 " " . .	4,358.00		86,596.38
Herbert L. Burrell (1914), . . . . .	5,905.69	" . . . 304.16 " " . .	300.00		5,909.85
Memorial Cancer Hospital Endowment (1910), . . . . .	134,654.23	" . . . 6,984.67 " Sp. Ex.	6,730.05		134,858.85
Memorial Cancer Hospital New Lab- oratory Fund (1917), . . . . .	10,132.15	Gift . . . . 10,000.00			
		Interest . . . . 789.94			20,922.09

<b>Memorial Cancer Hospital Proctor</b>							
Maintenance (1912), . . . . .	9,419.25	Interest . . .	376.77	Med. Sp. Ex.	376.77	.....	9,419.25
<b>Memorial Cancer Hospital Research</b>							
Fund, . . . . .	11,068.99	Gifts . . . .	400.00	"	"	.....	11,458.99
		Interest . . .	442.86	"	"	.....	
<b>Memorial Cancer Hospital Subscriptions for current expenses, . . . . .</b>		Gifts . . . .	14,780.00	"	"	.....	
<b>T. Jefferson Coolidge for Cancer Research (1915), . . . . .</b>	2,000.00	Interest . . .	108.00	"	"	.....	2,000.00
<b>Caroline Brewer Croft (1899), . . . . .</b>	92,025.00	" . . . .	4,739.29	"	"	.....	92,025.00
<b>Dr. John C. Cutter Bequest (1910), . . . . .</b>	15,841.81	" . . . .	815.82	"	"	.....	15,841.81
		Royalties . .	40.58	F. & G. Sp.	429.45	.....	15,955.11
<b>Dr. Henry Isaiah Dorr Chair of Research and Teaching in Anaesthetics and Anæsthesia (1917), . . . . .</b>	70,000.00	Gift Cap. . . .	30,000.00			.....	
		Interest . . .	2,800.00	Annuity .	2,800.00	.....	100,000.00
<b>Thomas Dwight Memorial (1912), . . . . .</b>	18,020.49	" . . . .	670.53	Med. Sp. Ex.	494.58	.....	18,196.44
<b>Calvin and Lucy Ellis (1899), . . . . .</b>	403,576.97	" . . . .	22,127.36	" Sal. .	21,021.00	.....	404,683.33
<b>William Endicott (1915), . . . . .</b>	25,000.00	" . . . .	1,287.50	" Sp. Ex.	1,287.50	.....	25,000.00
<b>George Fabyan Foundation for Comparative Pathology (1906), . . . . .</b>	231,612.71	" . . . .	11,928.07	" Sal. . .	5,000.00	.....	
		" . . . .		" Sp. Ex.	3,000.76	.....	235,540.02
<b>George Fabyan Foundation Special (1910), . . . . .</b>	12,229.16	" . . . .	629.79		.....	.....	12,858.95
<b>Charles F. Farrington (1909), . . . . .</b>	51,891.28	" . . . .	2,672.39	" Sal. . .	1,500.00	.....	52,304.84
		" . . . .		" Sp. Ex.	758.88	.....	
<b>Lawrence Carteret Fenno (1911), . . . . .</b>	20,000.00	" . . . .	1,080.00	"	"	.....	20,000.00
Amounts carried forward, \$24,083,005.10 . . . . .							\$1,495,470.59
							\$23,658,518.00



Hamilton Kuhn Memorial (1908),	191,742.20	Interest . . .	9,874.71	Med. Sal. & Sp. Ex.	9,880.97	.....	192,285.94
Walter Augustus Leocompte Professorship of Otology (1907), . . .	55,015.24	" . . .	2,833.27	" Sal. . .	1,600.00	.....	55,865.66
Maria D. Lockwood Memorial (1915),	50,728.58	" . . .	2,612.54	" Sp. Ex.	882.85	.....	50,728.58
Harriet Newell Lowell (1907), .	2,507.23	" . . .	35.95	" " "	2,612.54	.....	985.22
Medical Library (1872), . . . . .	2,598.67	" . . .	133.85	" " "	1,607.96	.....	2,782.52
Charles S. Minot (1915), . . . .	2,218.78	" . . .	114.29	" " "	.....	.....	2,833.02
Julia M. Moseley (1915), . . . .	28,250.00	" . . .	875.00	" " "	875.00	.....	28,250.00
William O. Moseley (1897), . . .	54,192.86	" . . .	2,790.94	" Sal. . .	2,050.00	.....	54,933.80
New Subscription (1888), . . . . .	38,850.00	" . . .	2,000.78	" G. Ex.	2,000.78	.....	38,850.00
Lyman Nichols (1907), . . . . .	10,020.18	" . . .	516.08	" " "	516.08	.....	10,020.18
George F. Parkman (Medical) (1910), . . . . .	8,581.40	" . . .	441.92	" Sal. . .	441.92	.....	8,581.40
Gift for Pathological Laboratory, . . .	6,738.62	" . . .	349.30	" Sp. Ex.	194.44	.....	6,949.08
Clara Endicott Payson Memorial Free Bed Fund (1911), . . . .	5,000.00	" . . .	257.50	" " "	257.50	.....	5,000.00
Henry L. Pierce (Residuary) (1898), . . . . .	39,216.62	" . . .	2,019.68	" G. "	2,019.68	.....	39,216.62
Proctor (1908), . . . . .	50,918.44	" . . .	2,622.28	" Sp. "	2,351.99	.....	51,188.73
Emily J. Proctor Gift (1914), . . .	2,500.51	" . . .	128.75	" " "	128.75	.....	2,500.51
Maurice Howe Richardson Memorial (1915), . . . . .	3,175.00	" . . .	168.51	" " "	168.51	.....	3,175.00
John D. Rockefeller Gift (1902), .	1,000,000.00	" . . .	51,500.00	" G. "	51,500.00	.....	1,000,000.00
Dr. Ruppener (1897), . . . . .	9,335.94	" . . .	480.80	" " "	480.80	.....	9,335.94
Amounts carried forward, \$26,141,842.52 . . . . .							\$26,566,791.86
							\$23,653,518.00

# MEDICAL SCHOOL (continued)

	Principal, July 1, 1917	Receipts	Expenditures	Suspense June 30, 1918	Totals
Amounts brought forward, \$26,141,842.52 . . . . .					\$8,556,791.86
School of Comparative Medicine (1899),	7,791.50	Interest . . .	\$401.29 Med. Sal. . .	\$400.00	7,792.79
Gardiner Hubbard Soudder (1914), . . . . .	10,044.53	" . . .	517.32 Annuity . .	524.93	10,086.92
Henry Francis Sears Fund for Pathology (1907), . . . . .	35,287.19	" . . .	1,817.28 Med. Sal. . .	500.00	
			" Sp. Ex. 1,484.49		35,169.98
Frederick C. Shattuck (1916), . . . . .	107,555.48	Trans. from Gifts Trop. Med. 21,251.86			
George C. Shattuck (1853), . . . . .	102,000.00	Interest . . .	6,630.57 " " . .	8,595.09	181,842.32
James Skillen Memorial Fund (1907), . . . . .	11,311.10	" . . .	5,090.50 " Sal. . .	5,000.00	102,090.50
Francis Skinner (1914), . . . . .	48,561.74	" . . .	582.52 " G. Ex. .	582.52	11,311.10
James Stillman Professorship (1902), . . . . .	119,378.86	" . . .	2,282.48 " " . .	2,282.48	48,561.74
Surgical Laboratory (1897), . . . . .	5,562.14	" . . .	6,148.03 " Sal. . .	6,000.00	119,526.89
Mary W. Swett (1884), . . . . .	15,765.11	" . . .	286.44 " Sp. Ex. .	848.58	5,000.00
Samuel W. Swett (1884), . . . . .	20,000.00	" . . .	811.90 " G. " .	811.90	15,765.11
William H. Thorndike (1895), . . . . .	6,059.19	" . . .	1,080.00 " " . .	1,080.00	20,000.00
Quincy Tufts (1879), . . . . .	2,000.00	" . . .	312.03 " Sp. " .	312.03	6,059.19
Zoe D. Underhill Research (1912),	10,000.00	" . . .	108.00 " G. " .	103.00	2,000.00
Warren Fund for Anatomical Museum (1846), . . . . .	15,111.21	" . . .	515.00 " Sp. " .	475.00	10,040.00
			778.22		15,889.43

James C. White Bequest (1916), . .	5,075.50	Interest . . .	261.41	Med. Sp. Ex.	3.95	.....	5,892.96
Edward Wigglesworth Pro- fessorship of Dermatology (1907), .	61,329.60	" . . .	3,158.50	" Sal. . .	2,500.00	.....	
				" Sp. Ex. .	480.00	.....	61,508.10
Charles Wilder (1900), . . . . .	53,708.28	" . . .	2,765.96	Annuities .	2,460.00	.....	54,014.24
Henry Willard Williams (1898), .	58,569.39	" . . .	3,016.30	Med. Sal. .	1,566.68	.....	60,019.01
Morrill Wyman Medical Research (1915), . . . . .	133,693.51	" . . .	7,064.39	" " . .	6,324.89	.....	
		Other receipts	114.42	" Sp. Ex. .	240.00	.....	133,807.98
Gifts for salaries, . . . . .	200.00	Gifts . . .	3,687.50	" Sal. . .	3,687.50	.....	200.00
Harvard Medical Alumni Gifts, . . .	.....	" . . .	2,166.68	" " . .	2,166.68	.....	.....
Aesculapian Club Gift — Medical School, . . . . .	308.53	" . . .	200.00	" Sp. Ex. .	151.09	.....	357.44
Gift for Flag Pole, . . . . .	.....	" . . .	63.89	" " . .	63.89	.....	.....
Gift for Recreation Grounds, . . . .	415.52	.....	.....	" " . .	23.20	.....	892.32
Dept. of Anatomy — Gift for salary of artist, . . . . .	430.42	" . . .	812.50	" " . .	430.42	.....	823.58
		Interest . . .	10.08	" " . .	321.18	.....	264.73
Dept. Bacteriology — Gift, A.B.C. . .	486.91	Gift . . .	100.00	" " . .	.....	.....	184.77
Dept. Bacteriology — Gift H. S. F., Assistant for Dr. Bovie, . . . . .	290.37	.....	.....	" " . .	105.60	.....	187.50
Dept. Bacteriology — Gift Rockefeller Institute for Medical Research, . . .	187.50	.....	.....	.....	.....	.....	80.11
Dept. of Bacteriology — W. H. Walker Gift, . . . . .	80.11	.....	.....	.....	.....	.....	
Amounts carried forward, \$26,968,045.21 . . . . .							\$4,410,049.52 \$23,653,518.00

# MEDICAL SCHOOL (continued)

	Principal, July 1, 1917	Receipts	Expenditures	Suspense June 30, 1918	Principal, Totals
Amounts brought forward, \$36,968,045.21					\$4,410,049.52 \$38,658,518.00
Dept. of Bacteriology — John G. Wright Gift, . . . . .	38.69				38.69
Dept. Comparative Pathology — Gift for Investigation of Milk Infections, . .	1,000.00	Interest . . . \$24.96	Med. Sp. Ex. \$307.15		817.81
Dept. of Comparative Pathology — Gift of Mass. Society for Promoting Agriculture, . . . . .	2,580.86	" . . . 108.23			2,684.09
Dept. of Diseases of Nervous System — Gifts, William N. and Katherine E. Bullard, . . . . .	642.32	Gift . . . . 500.00			
		Interest . . . 9.09	" " " 944.73		306.69
Dept. of Diseases of Nervous System — Gift Dr. W. N. Bullard for study of Pellagra, . . . . .	1,115.93	" . . . 32.49	" " " 400.00		748.42
Library — Duplicate Book Fund, . . .	567.14	" . . . 28.48			
		Sales . . . . 6.75			617.37
" Gifts for Charles B. Porter Hall, . . . . .	51.96				51.96
" Alpha Omega Alpha Gift, . .	8.00	Gift . . . . 8.00			16.00
Dept. of Ophthalmology — Gift, Laboratory of Physiological Optics, . .	66.24				66.24
Dept. of Pathology — Morrill Wyman Gift, . . . . .	96.33		" " " 47.10		49.23

Dept. of Preventive Medicine & Hygiene						
— Gift for Investigation of Infantile Paralysis, . . . . .	4,134.99	Interest . . . . .	114.68	Med. Sp. Ex.	950.86	3,289.29
Dept. of Preventive Medicine & Hygiene						
— Gift National Cannery Association for investigation of food poisoning, . . . . .	2,590.14	Gifts . . . . .	20,000.00	" "	23,165.87	Dr. 575.73
Dept. of Preventive Medicine & Hygiene						
— Expenses of Instruction and Investigation in Industrial Hygiene, . . . . .	84,150.00	" . . . . .	84,150.00	" "	122.76	84,098.10
Dept. of Preventive Medicine & Hygiene						
— Gift for Research, . . . . .	24,456.86	Interest . . . . .	70.86	" "	493.84	24,836.11
Dept. of Syphilology — Gift Aesculapian Club for research work, . . . . .	190.00	Sales . . . . .	731.63	" "	190.00	190.00
Dept. of Surgery — Gifts for Surgical Library, . . . . .	815.21	Interest . . . . .	15.77	" "	60.90	770.68
Dept. of Surgery — Gift for X-Ray Apparatus, . . . . .	945.56	" . . . . .	37.82	" "	983.88	983.88
Dept. of Surgical Pathology — Gift of J. A. L. Blake, . . . . .	8.17	Receipts . . . . .	391.89	" "	486.64	8.17
Repayments to Anatomical Laboratory, . . . . .	44.75	" . . . . .	51.00	" "	51.00	44.75
Repayments to Bacteriological Laboratory, . . . . .		" . . . . .	946.93	" "	946.93	
Repayments to Biological-Chemical Laboratory, . . . . .		" . . . . .		" "		
Amounts carried forward, \$27,007,408.35 . . . . .						\$4,539,521.74
						\$25,658,518.00

# MEDICAL SCHOOL (continued)

	Principal, July 1, 1917	Receipts	Expenditures	Suspense June 30, 1918	Principal, Totals
Amounts brought forward, \$37,007,408.86 . . . . .					\$4,529,521.74 \$28,653,518.00
Repayments to Comparative Pathological Laboratory, . . . . .		Receipts . .	\$782.50 Med. Sp. Ex.	\$22.02	760.48
Repayments to Dept. of Medicine Laboratory, . . . . .		" . .	44.20 " "	44.20	
Repayments to Neuropathological Laboratory, . . . . .	700.52	" . .	700.00		
		Interest . .	28.02 " "		742.59
Repayments to Pathological Laboratory, . . . . .		Receipts . .	10.00 " "	10.00	
Repayments to Pharmacological Laboratory, . . . . .		" . .	79.08 " "		
Repayments to Physiological Laboratory, . . . . .		" . .	345.70 " "	345.70	
Repayments to Dept. of Preventive Medicine & Hygiene Laboratory, . . . . .		" . .	88.00 " "	88.00	
Repayments to Surgical Laboratory, . . . . .		" . .	48.44 " "	48.44	
Repayments to Syphilological Laboratory, . . . . .		" . .	1,180.00 " "	1,180.00	
Aesculapian Club Gift, . . . . .	121.20				121.20
Anonymous Gift for Investigation of Diabetes Mellitus, . . . . .	67.38				67.38
Gifts for Instruction in Military Science, . . . . .		Gift . . .	1,000.00		1,000.00
Gift Expenses Surgical Unit—Amer. Ambulance Hospital in France, . . . . .	1,701.68	Interest . .	68.07		1,769.75

Gift for use of Infantile Paralysis Com-									
mission, . . . . .	1,138.67	Interest . . .	8.63	Med. Sp. Ex.	963.61	.....	173.69		
Gifts for salaries, Huntington Hospital,	1,000.00	Gifts . . . .	4,500.00	" "	3,166.68	.....	2,833.32		
Gift Research Dept. of Genetics under									
direction of Cancer Commission, . .	320.00		.....			.....	320.00		
Gift for purchase of physical appa-									
ratus — Huntington Hospital, . .	.....	Gift . . . .	50.00	" "	50.00	.....	.....		
Gift for salary of technician —									
Huntington Hospital, . . . . .	.....	" . . . .	165.00	" "	165.00	.....	.....		
Gift of Franklin W. Moulton to be									
expended under direction of Social									
Service Worker—Cancer Commission,	.....	" . . . .	100.00	" "	44.79	.....	55.21	4,536,865.36	

## FELLOWSHIP

Anonymous Gift for Teaching Fel-									
lowships in Histology and Embry-									
ology (balance), . . . . .	\$6.33		.....		.....	.....	\$6.33		
Edward Hickling Bradford (1918),	.....	Gift Cap. . .	\$25,000.00						
		Interest . . .	38.78			.....	25,038.78		
Arthur Tracy Cabot Fellowship									
(1918), . . . . .	26,111.04	" . . .	1,344.72			.....	27,455.76		
James Jackson Cabot (1906), . .	11,852.80	" . . .	610.38			.....	12,463.68		
Charles Follen Folsom Memo-									
rial (1908), . . . . .	18,975.76	" . . .	714.61	Med. Sal. . .	\$388.34	.....	14,207.03		
John R. Kissinger (1911), . . .	4,052.59	" . . .	208.73		.....	.....	4,261.32		
William O. Moseley, Jr. (1912), .	83,111.02	" . . .	4,280.22	" Fell. . .	900.00	.....	86,491.24		
Amounts carried forward, \$27,151,458.83						.....	\$169,925.13	\$28,190,888.36	

# MEDICAL SCHOOL (continued)

	<i>Principal, July 1, 1917</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense June 30, 1918</i>	<i>Principal, Totals</i>
Amounts brought forward, \$27,151,458.88					\$169,325.18 \$28,190,383.86
<b>George Cheyne Shattuck</b>					
Memorial (1891), . . . . .	5,945.47	Interest . . . \$306.17	.....	.....	6,251.64
Henry P. Walcott (1910), . . .	27,744.55	" . . . 1,428.87	.....	.....	30,173.42
		Other receipts 1,000.00	.....	.....	
<b>Charles Eliot Ware Memorial</b>					
(1891), . . . . .	6,326.33	Interest . . . 325.78	.....	.....	6,652.11
John Ware Memorial (1891), . . .	5,982.51	" . . . 808.12	.....	.....	6,390.63
					219,392.93

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## SCHOLARSHIP

Lucius F. Billings (1900), . . .	\$5,701.33	Interest . . . \$293.60	Med. Sch. . . \$250.00	.....	\$5,744.93
John White Browne (1918), . . .	.....	Gift Cap. . . 18,586.38			
		Cap. Gain . . 8.01			
		Interest . . . 545.78	.....	.....	19,135.17
	6,285.91	" . . . 323.73	" . . 275.00	.....	6,334.64
<b>David Williams Cheever (1889),</b>					
Loan Fund of the Medical Class of					
1879, . . . . .	607.20	" . . . 31.26	.....	.....	638.46
Cotting Gift (1900), . . . . .	3,618.62	" . . . 186.38	" . . 150.00	.....	3,655.00
Frederic Shurtleff Coolidge (1916),	500.00	" . . . 25.75	" . . 500.00	.....	25.75
Orlando W. Doe (1893), . . . .	3,375.44	" . . . 173.81	" . . 125.00	.....	3,424.25
<b>John Foster Income for Medical</b>					
Students (balance), . . . . .	71.81	.....	.....	.....	71.81
<b>George Haven (1918), . . . . .</b>	<b>24,469.23</b>	" . . . 1,360.57	" . . 1,080.00	.....	<b>24,649.79</b>

# Lewis and Harriet Hayden

(1894), . . . . .	6,227.23	Interest . .	330.69	Med. Sch. . .	275.00	.....	6,273.91
William Otis Johnson (1911), . .	4,453.21	" . . .	239.38	" . . .	175.00	.....	4,507.54
Claudius M. Jones (1893), . . . .	7,319.25	" . . .	376.93	" . . .	325.00	.....	7,371.18
Alfred Hosmer Linder (1895), . .	6,014.93	" . . .	308.77	" . . .	250.00	.....	6,074.70
J. Ewing Mears Gift, . . . . .	.....	Gift . . .	235.00	" . . .	225.00	.....	.....
Joseph Pearson Oliver (1904), . .	9,509.61	Interest . .	489.76	" . . .	400.00	.....	9,599.37
Charles B. Porter (1897), . . . .	6,267.68	" . . .	322.80	" . . .	275.00	.....	6,315.48
Francois Skinner (1906), . . . .	5,517.58	" . . .	284.18	" . . .	450.00	.....	5,351.76
Charles Pratt Strong (1894), . . .	5,681.06	" . . .	292.57	" . . .	250.00	.....	5,728.63
Isaac Sweetser (1892), . . . . .	7,220.72	" . . .	377.03	" . . .	325.00	.....	7,372.75
John Thomson Taylor (1899), . .	5,348.77	" . . .	301.22	" . . .	250.00	.....	5,399.99
Edward Wigglesworth (1897), . .	6,051.96	" . . .	311.68	" . . .	250.00	.....	6,118.64
Anonymous Gift for Loans . . . .	.....	Loan repaid .	150.00	" . . .	.....	.....	150.00
							134,432.75

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## PRIZE

Boylston (1808), . . . . .	\$5,714.20	Interest . .	\$294.27	.....	\$6,008.47
M. Douglas Flattery (1918), . .	.....	Gift Cap. . .	7,500.00	.....	7,500.00
Gift for Prize in Photochemistry . . .	.....	Gift . . . .	100.00	.....	100.00
					18,608.47

## GRADUATE SCHOOL OF MEDICINE

Gifts Department of Tropical Medicine,	\$285.02	Gifts . . . .	\$8,000.00		
Gift for special use, Dept. Trop. Med.,	21,251.36	Sales . . . .	237.86	Med. Sp. Ex.	\$3,522.88
			.....	Tr. to Fred'k	
				C. Shattuck Fd.	21,251.36
Amounts carried forward, \$27,839,549.79					.....
					\$38,557,717.51

# DENTAL SCHOOL

	<i>Principal, July 1, 1917</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense June 30, 1918</i>	<i>Principal, June 30, 1918</i>	<i>Totals</i>
Amounts brought forward, \$27,389,549.79						\$28,557,717.51
<b>John D. Bryant (1912), . . . .</b>	11,587.25	Interest . . \$396.73	Dent.Sp.Ex. \$298.36		11,885.62	
Dental School Endowment (1880), . .	9,437.87	" . . . . 486.05	" G. " 486.05		9,437.87	
Dental School Endowment (1911), . .	26,740.00	Gift Cap. . . 300.00				
		Interest . . . 1,888.70	" " " 1,888.70		27,040.00	
Dental School Endowment of the Class of 1886 (1911), . . . . .	50.00	" . . . . 2.58	" " " 2.58		50.00	
Dental School Endowment of the Class of 1888 (1914), . . . . .	100.00	" . . . . 5.15	" " " 5.15		100.00	
Dental School Endowment of the Class of 1891 (1917), . . . . .		Gift Cap. . . 20.00				
		Interest . . . .57	" " " .57		20.00	
Dental School Endowment of the Class of 1898 (1918), . . . . .		Gift Cap. . . 100.00			100.00	
Dental School Endowment of the Class of 1907 (1914), . . . . .	10.00	Interest . . . .51	" " " .51		10.00	
Dental School Endowment of the Class of 1909 (1910), . . . . .	50.00	" . . . . 2.57	" " " 2.57		50.00	
Harvard Dental Alumni Endow- ment (1906), . . . . .	6,845.33	Gifts . . . . 80.00				
		Interest . . . .386.77	" " " 406.77		6,845.33	
Helen Collamore (1916), . . . .	10,100.00	" . . . . 530.15	" " " 530.15		10,100.00	
Harriet Newell Lowell, . . . .	4,809.67	" . . . . 81.77	" Sp. " 4,860.27		531.17	
Katherine C. Pierce Endowment (1914), . . . . .	10,511.86	" . . . . 541.87	" G. " 541.87		10,511.86	

Proctor Bequest (1910), . . . . .	500.00	Interest . . .	25.75	Dent. G. Ex.	25.75	.....	500.00
Mary F. Russell Bequest (1916), .	5,000.00	" . . .	257.50	" "	257.50	.....	5,000.00
Joseph Warren Smith, Jr. Memorial (1909), . . . . .	10,925.00	" . . .	531.74	" "	531.74	.....	10,925.00
Henry C. Warren Endowment (1889), . . . . .	23,000.00	" . . .	1,184.50	" "	1,184.50	.....	23,000.00
Gift for expenses of Dental Infirmary	.....	Gifts . . .	205.00	" Sp.	205.00	.....	.....
Gifts for X-ray Apparatus, . . . . .	5.27	.....	.....	" "	.10	.....	5.17
							115,012.02

# OBSERVATORY

Advancement of Astronomical Science (1901), . . . . .	\$10,949.30	Interest . . .	\$563.87				
		Obs. Surplus	2,666.24	Obs. Sp. Ex.	\$4,581.23	.....	\$9,598.18
Advancement of Astronomical Science (1902), . . . . .	20,000.00	Interest . . .	1,646.50	" G.	1,646.50	.....	20,000.00
George R. Agassiz Gift, Revising Draper Catalogue, . . . . .	644.70	Gift . . . .	1,000.00				
		Interest . . .	16.50	" Sp.	999.96	.....	661.24
Amory Astronomical Fund (1916), .	54,767.27	" . . .	2,890.50		.....	.....	57,587.77
Thomas G. Appleton (1884), . .	5,000.00	" . . .	257.50	" G.	257.50	.....	5,000.00
J. Ingersoll Bowditch (1889), . .	2,500.00	" . . .	128.75	" "	128.75	.....	2,500.00
Uriah A. Boyden (1887), . . . . .	185,000.00	" . . .	9,527.50	" Sp.	9,527.50	.....	185,000.00
Draper Memorial (1917), . . . .	15,000.00	Gift Cap. . .	7,500.00				
		" Income . .	4,000.00				
		Interest . . .	959.81	" "	4,959.81	.....	23,500.00
J. Bayner Edmands Bequest (1911),	1,014.21	" . . .	52.22	" G.	52.22	.....	1,014.21
Amounts carried forward, \$27,752,997.52							\$303,961.40
							\$28,672,729.58

## OBSERVATORY (continued)

	Principal, July 1, 1917	Receipts	Expenditures	Suspense June 30, 1918	Principal, June 30, 1918	Totals
Amounts brought forward, \$27,752,997.52					\$308,861.40	\$28,072,729.53
Charlotte Harris (1877), . . . . .	2,000.00	Interest . . . \$108.00	Obs. G. Ex. 108.00	.....	2,000.00	
Haven (1898), . . . . .	45,000.00	" . . . 2,317.50	" " 2,317.50	.....	45,000.00	
James Hayward (1866), . . . . .	21,000.00	" . . . 1,081.50	" " 1,081.50	.....	21,000.00	
Observatory Endowment (1882), . . . . .	50,000.00	" . . . 2,575.00	" " 2,575.00	.....	50,000.00	
Paine Professorship (1886), . . . . .	50,000.00	" . . . 2,575.00	Sal. 2,575.00	.....	50,000.00	
Robert Treat Paine (1866), . . . . .	278,982.07	" . . . 14,107.50	G. Ex. 14,107.50	.....	278,982.07	
Edward B. Phillips (1849), . . . . .	110,998.88	" . . . 5,680.14	" " 5,680.14	.....	110,998.88	
Josiah Quincy (1866), . . . . .	11,250.88	" . . . 579.43	Sp. " 781.08	.....	11,049.28	
David Sears (1845), . . . . .	26,728.39	" . . . 1,376.49	G. " 688.24	.....	27,416.64	
David Sears (1916), . . . . .	25,000.00	" . . . 1,287.50	" " 1,287.50	.....	25,000.00	
Augustus Story (1871), . . . . .	13,380.00	" . . . 689.07	" " 689.07	.....	13,380.00	
Gift for publishing lunar photographs, . . . . .	42.35	" . . . . .	" . . . . .	.....	42.35	
Gift for Charles S. Hinchman Fellowship, . . . . .		Gift . . . 500.00		.....	500.00	
ship, . . . . .		" . . . 250.00		.....		
Maria Mitchell Fellowship, . . . . .	775.15	Interest . . . 12.57	" Sp. " 580.16	.....	507.56	
E. C. Pickering Fellowship, . . . . .	885.31	" . . . 618.52	" " 500.11	.....	498.72	
Gifts for current use, . . . . .		Gift . . . 250.00	G. " 250.00	.....		
Gift to defray cost of publication of Vol. 91, Observatory Annals, . . . . .		" . . . 1,860.00	" Sp. " 1,851.81	.....	28.19	
						984,510.04

# BLUE HILL METEOROLOGICAL OBSERVATORY

Waldo E. Forbes (1917), . . . .	\$6,000.00	Interest . . .	\$309.00	B.H.Obs.G.Ex.	\$309.00	.....	\$6,000.00
A. Lawrence Rotch Bequest (1913), . . . . .	53,841.01	" . . .	2,721.31	" "	842.81	.....	54,719.51
Gifts for current expenses, . . . . .	.....	Gifts . . .	4,250.00	" "	4,250.00	.....	<u>\$80,719.51</u>

## BUSSEY INSTITUTION

Bussey Institution Endowment (1913), \$133,304.00	Interest . . .	\$6,865.16	B. I. G. Ex.	\$6,865.16	.....	\$133,304.00
Anna C. Ames Memorial Scholarship (1918), . . . . .	425.00	Gift Cap. . .	10,000.00			
		" Income	425.00			
	Interest . . .	141.83	B. I. Sch.	400.00	.....	10,591.83
Mrs. William H. Bliss (1917), . .	50,000.00	" . . .	2,500.00	" Sal.	150.00	
				" Sch.	600.00	
Woodland Hill (1895), . . . . .	20,658.86	" . . .	1,000.00	F. & G. Sp.	446.70 Cr. \$553.20	51,750.00
Priscilla Clark Hodges Scholarship (1907), . . . . .	4,431.66	" . . .	238.25	B. I. Sch.	226.00	20,658.86
Gift for Forestry Dept., . . . . .	539.42	" . . .	21.53		.....	4,434.91
Gifts expenses experimental garden in Plant Genetics and additional furnishings for dormitory, . . . . .	1,227.07	" . . .	49.08		.....	561.00
Gifts for salaries, . . . . .	.....	Gift . . .	150.00	" Sal.	150.00	1,276.15
Dept. of Forestry — Operations, . . . . .	.....	Sales . . .	9,055.46	" Sp. Ex.	6,501.39 Cr. 2,554.07	.....
Amounts carried forward, \$38,652,212.57	.....					<u>222,576.75</u>
						\$29,890,535.83

# ARNOLD ARBORETUM

	<i>Principal, July 1, 1917</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense June 30, 1918</i>	<i>Principal, June 30, 1918</i>	<i>Totals</i>
Amounts brought forward, \$28,652,212.57						\$29,890,535.88
Arnold Arboretum (1899), . . . .	125,650.00	Interest . . \$6,470.98	A. A. G. Ex. \$6,470.98	.....	\$125,650.00	
Arnold Arboretum Endowment (1917), 219,950.00		Gifts Cap. . . 38,900.00	" " "			253,850.00
		Interest . . . 12,711.80	" " "			165,678.33
James Arnold (1872), . . . . .	165,252.68	" . . . 8,511.04	" " "			
Arboretum Construction Gifts (balance), 78,590.28		" . . . 4,047.38	" " "			
		Arb. Surplus 1,442.85	" " "			80,038.13
Robert Charles Billings (1904), . .	12,500.00	Interest . . . 687.75	" " "			12,500.00
William L. Bradley (1897), . . . .	20,000.00	" . . . 1,080.00	" " "			
		Sales . . . 160.00	" Sp. " 1,190.00			20,000.00
Bussey Fund for the Arnold Arbore-						
tum (1908), . . . . .	2,308.06	Interest . . . 118.86	" G. " 118.86			2,308.06
Helen Collamore Bequest (1916), .	2,525.00	" . . . 180.04	" " " 180.04			2,525.00
Massachusetts Society for Promoting						
Agriculture (1911), . . . . .	7,500.00	Gifts Cap. . . 500.00				
		Interest . . . 399.28	" " " 399.28			8,000.00
Francis Skinner (1906), . . . . .	20,000.00	" . . . 1,080.00	" " " 1,080.00			20,000.00
Francis Skinner, Jr. Bequest (1915),	10,000.00	" . . . 515.00	" " " 515.00			10,000.00
Sears Gift for Library, . . . . .	1,008.78	" . . . 16.19	" Sp. " 272.90			752.07
Bayard and Ruth S. Thayer						
(1911), . . . . .	20,000.00	Gift Cap. . . 5,000.00				
		Interest . . . 1,205.00	" G. " 1,205.00			25,000.00
Edward Whitney (1912), . . . .	1,279.87	" . . . 65.87	.....			1,345.24

Gifts for Expedition to China, . . . .	1,178.48	Interest . . .	85.33				
Gifts for Expedition to Korea, . . . .	2,807.89	Sales . . . .	928.09	A. A. Sp. Ex.	118.42		2,098.88
		Gifts . . . .	3,205.88				
		Interest . . .	57.47	" "	3,866.87		2,204.87
Gifts for general purposes, . . . . .		Gifts . . . .	25,655.00	" " G. "	25,655.00		731,874.48

# PHILLIPS BROOKS HOUSE

Louise E. Bettens (1917), . . . .	\$2,538.89	Interest . . .	\$130.50				\$2,664.39
Phillips Brooks House Endowment (1901), . . . . .	10,506.66	"	541.11	Ph.Br.Ho.G.Ex.	\$541.11		10,506.66
Phillips Brooks House Association Endowment (1917), . . . . .	76,188.20	Gift Cap. . .	1,000.00				
Ralph H. Shepard (1900), . . . .	11,848.64	Interest . . .	8,974.51	" " Sp. "	2,700.00		78,462.71
Ralph Hamilton Shepard Memorial (1898), . . . . .	5,888.10	"	584.22	" " G. "	584.22		11,848.64
John W. and Belinda L. Randall (1897), . . . . .	7,305.53	"	302.97	" " "	265.13		5,980.94
		"	375.26				7,681.79
							116,580.13

# WILLIAM HAYES FOGG ART MUSEUM

William Hayes Fogg (1892), . .	\$50,443.55	Gifts . . . .	\$2,560.00				
Gray Fund for Engravings (1868), .	16,297.71	Interest . . .	2,597.87	Fogg M.G.Ex.	\$5,210.22		\$50,891.20
William M. Prichard (1898), . .	15,075.91	"	839.35	" Sp. "	969.68		16,167.38
John Witt Randall (1892), . . . .	80,169.79	"	776.41	" " "	875.86		15,476.46
		"	1,553.75	" " "	1,465.87		80,257.67
Amounts carried forward, \$29,568,511.09							\$112,392.71
							\$30,738,990.44

# ARNOLD ARBORETUM

	<i>Principal, July 1, 1917</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense June 30, 1918</i>	<i>Principal, Totals</i>
Amounts brought forward,	\$28,652,212.57				\$29,890,585.83
Arnold Arboretum (1899), . . . . .	125,650.00	Interest . . . \$6,470.98	A. A. G. Ex. \$6,470.98	.....	\$125,650.00
Arnold Arboretum Endowment (1917), . . . . .	219,950.00	Gifts Cap. . . 38,900.00	" " "	.....	253,850.00
James Arnold (1873), . . . . .	165,352.68	Interest . . . 12,711.80	" " "	.....	165,678.23
Arboretum Construction Gifts (balance), . . . . .	78,590.28	" . . . 8,511.04	" " "	.....	
		" . . . 4,047.38	" " "	.....	
		Arb. Surplus 1,442.85	" " "	.....	80,038.13
Robert Charles Billings (1904), . . . . .	12,500.00	Interest . . . 687.75	" " "	.....	12,500.00
William L. Bradley (1897), . . . . .	20,000.00	" . . . 1,080.00	" " "	.....	
Bussey Fund for the Arnold Arboretum (1908), . . . . .		Sales . . . 160.00	" Sp. "	.....	20,000.00
Helen Collamore Bequest (1916), . . . . .	2,808.06	Interest . . . 118.86	" G. "	.....	2,808.06
Massachusetts Society for Promoting Agriculture (1911), . . . . .	2,525.00	" . . . 120.04	" " "	.....	2,525.00
	7,500.00	Gifts Cap. . . 500.00	" " "	.....	
Francis Skinner (1906), . . . . .		Interest . . . 399.28	" " "	.....	8,000.00
Francis Skinner, Jr. Bequest (1915), . . . . .	20,000.00	" . . . 1,080.00	" " "	.....	20,000.00
Sears Gift for Library, . . . . .	10,000.00	" . . . 515.00	" " "	.....	10,000.00
Bayard and Ruth S. Thayer (1911), . . . . .	1,008.78	" . . . 16.19	" Sp. "	.....	752.07
	20,000.00	Gift Cap. . . 5,000.00	" " "	.....	
		Interest . . . 1,205.00	" G. "	.....	25,000.00
Edward Whitney (1912), . . . . .	1,279.87	" . . . 65.87	" " "	.....	1,345.24

Gifts for Expedition to China, . . . .	1,178.48	Interest . . .	85.38				
		Sales . . . .	928.09	A. A. Sp. Ex.	113.42		2,028.88
Gifts for Expedition to Korea, . . . .	2,807.89	Gifts . . . .	3,205.88				
		Interest . . .	57.47	" " "	3,868.87		2,204.37
Gifts for general purposes, . . . . .		Gifts . . . .	25,655.00	" " G. "	25,655.00		731,874.48

#### PHILLIPS BROOKS HOUSE

Louise E. Bettens (1917), . . . . .	\$2,583.89	Interest . . .	\$130.50				\$2,664.39
Phillips Brooks House Endowment (1901), . . . . .	10,506.66	" . . . .	541.11	Ph.Br.Ho.G.Ex.	\$541.11		10,506.66
Phillips Brooks House Association Endowment (1917), . . . . .	76,138.20	Gift Cap. . .	1,000.00				
18 Ralph H. Shepard (1900), . . . . .	11,843.64	Interest . . .	3,974.51	" " Sp. "	2,700.00		78,462.71
Ralph Hamilton Shepard Memorial (1898), . . . . .		" . . . .	584.22	" " G. "	584.22		11,843.64
John W. and Belinda L. Randall (1897), . . . . .	5,888.10	" . . . .	302.97	" " "	265.13		5,920.94
	7,305.53	" . . . .	376.26				7,681.79

116,580.13

#### WILLIAM HAYES FOGG ART MUSEUM

William Hayes Fogg (1892), . . . .	\$50,443.55	Gifts . . . .	\$2,560.00				
		Interest . . .	2,597.87	Fogg M.G.Ex.	\$5,310.23		\$50,391.30
Gray Fund for Engravings (1858), . .	16,297.71	" . . . .	839.35	" Sp. "	969.68		16,167.38
William M. Prichard (1898), . . . .	15,075.91	" . . . .	776.41	" " "	875.86		15,476.46
John Witt Randall (1892), . . . . .	30,169.79	" . . . .	1,553.75	" " "	1,465.87		30,267.67
Amounts carried forward, \$29,568,511.09							\$112,292.71
							\$30,788,990.44

# WILLIAM HAYES FOGG ART MUSEUM (continued)

	<i>Principal, July 1, 1917</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense</i>	<i>Principal, June 30, 1918 Totals</i>
Amounts brought forward, \$39,568,511.09					\$112,392.71 \$30,738,990.44
Gifts from the Society of Friends of the Fogg Art Museum, . . . . .	257.84	Gifts . . . \$2,487.00			
Gift of Mrs. Samuel Sachs for purchase of works of art, . . . . .		Interest . . . 17.05 Fogg M.Sp.Ex.	\$2,617.25		\$144.64
Gift for purchase of water color by Sargent, . . . . .	145.14	Gift . . . . 2,500.00	" " 2,500.00		145.14
	16.55				16.55
					112,399.04

## STILLMAN INFIRMARY

Stillman Infirmary Gift (balance), Robert Charles Billings, for Stillman Infirmary (1908), . . . . .	\$9,999.77	Interest . . . \$515.00			\$10,514.77
Free Bed Fund of the Class of 1868 (1898), . . . . .	60,555.57	" . . . 3,118.63 Still Inf.G.Ex.	\$3,118.63		60,555.57
Free Bed Fund for Stillman Infirmary (1900), . . . . .	6,376.79	" . . . 328.42	" " 328.42		6,376.79
Herbert Schurz Memorial Free Bed (1908), . . . . .	653.26	" . . . 33.63	" " 33.63		653.26
Joseph and Lucius Tuckerman (1914), . . . . .	4,693.88	" . . . 288.60	" " 288.60		4,693.88
Henry P. Walcott (1901), . . . .	10,000.00	" . . . 515.00	" " 515.00		10,000.00
	3,204.16	" . . . 165.01	" " 165.01		3,204.16
					95,987.98

# CLASS FUNDS

Fund of the Class of 1884 (1887), .	\$2,405.82	Interest . . .	\$114.91	.....	\$2,520.73
" " 1853 (1887), .	3,725.00	" . . .	158.31	\$158.31	3,725.00
" " 1854 (1914), .	3,519.48	" . . .	181.23	.....	3,700.71
" " 1856 (1904), .	11,565.52	" . . .	595.65	.....	12,161.17
" " 1857 (1916), .	5,000.00	" . . .	300.00	" "	5,000.00
" " 1858 (1912), .	1,496.60	Gift Cap. . .	368.00	150.00	Ct. 150.00
" " 1864 (1915), .	3,213.46	Interest . . .	96.58	.....	1,960.18
		" . . .	165.47	" "	3,218.26
					<u>32,286.06</u>

## GIFTS FOR CONSTRUCTION

Arnold Arboretum Building Gifts, . .	\$1,267.31	Interest . . .	\$65.25	.....	\$1,332.56
Gift for flag pole on Stadium in memory of Dr. Milton Bettman, . . .	500.00	" . . .	20.00	.....	520.00
Gray Herbarium Gift for Construction, . .	1,176.43	" . . .	47.06	.....	1,223.49
Gifts for New Gymnasium Building, . .	11,148.46	" . . .	445.74	.....	11,599.20
High Voltage Electrical Laboratory, . .	11,982.81	" . . .	121.31	Coll. Sp. Ex. \$7,627.96	4,476.16
Semitic Building (balance), . . . . .	460.13	.....	.....	.....	460.13
George Smith Bequest (1904), . .	14,772.23	" . . .	760.76	Annuities . .	14,982.99
Gifts for Hospital—Department of Tropical Medicine, . . . . .	5,576.95	" . . .	223.08	.....	5,800.03
Amounts carried forward, \$29,712, 158.75					<u>\$31,020, 148.03</u>

# SUNDRY

	Principal, July 1, 1917	Receipts	Expenditures	Suspense June 30, 1918	Principal, Totals
Amounts brought forward, \$29,742,158.75					
<b>Edward Austin (1899),</b> . . . . .	498,781.70	Interest . . . \$35,429.77	Coll. Sal. . . \$6,582.92		\$31,020,148.02
		Loans repaid 880.82	" Fell. . . 2,150.00		
			" Sch. . . 8,275.00		
			" B. F. . . 50.00		
			Arch. Sch. . . 750.00		
			Div. Sal. . . 500.00		
			Med. " . . 1,856.19		\$504,928.18
<b>Bright Legacy (1880),</b> . . . . .	50,000.00	Interest . . . 2,575.00	Trans. to Coll. Sch. Fd. . . 1,204.17		
			Arch. Sch. . . 88.33		
			Library Fd. . . 1,387.50		50,000.00
<b>Bussey Trust (1861),</b> . . . . .	392,710.18	" . . . 28,980.28	Div. Sal. . . 5,148.98		
			Law " . . 5,148.92		
			B. I. G. Ex. . . 10,297.85		
			F. & G. Sp. . . 3,334.58		392,710.18
<b>Carnegie Foundation Retiring Allowance,</b> . . . . .		Gifts . . . 68,076.84	" " . . 68,076.84		
<b>Calvin and Lucy Ellis Aid (1899),</b> . . . . .	174,306.94	Interest . . . 8,976.81	Coll. Sal. . . 8,087.97		
			" B. F. . . 440.00		174,755.78
<b>John Foster (1840)</b> . . . . .	8,697.39	" . . . 190.89			8,887.78

Price Greenleaf (1887), . . . . .	790,195.48	Cap. Gain . .	250.00	{ Trans. to Coll. Sch.	8,000.00
Interest . . . . .	38,024.50	{ Trans. to Coll. B. F. }	17,512.25		
		{ Trans. to Lib. Books }	1,000.00		
		{ Trans. to Lib. G. Ex. }	16,512.25		790,445.48
Henry Harris (1883), . . . . .	29,389.33	" . . . . .	1,541.86	U. Ex. . . .	770.98
Harvard Memorial Society (1898), .	1,905.69	" . . . . .	98.16	Med. G. Ex. .	29,389.33
William S. Murphy Scholarship (1916), . . . . .	51,932.00	" . . . . .	2,674.50	F. & G. Sp. .	1,853.85
				Law Sch. . .	500.00
				Med. " . . .	250.00
Robert Troup Paine (1880), . . . .	78,769.30	" . . . . .	2,858.17		53,856.50
James Savage (1873), . . . . .	42,000.00	" . . . . .	2,163.00	Coll. Sch. . .	81,627.47
				Lib. G. Ex. .	300.00
				Obs. " " . .	1,897.25
Frederick Sheldon (1909), . . . . .	406,960.70	" . . . . .	21,132.14	Coll. Fell. . .	42,000.00
Edward Wigglesworth Memo- rial (1909), . . . . .	150,000.00	" . . . . .	7,725.00	Ap. Chap. G. Ex.	418,592.84
Anonymous Gifts for Botanical Mu- seum, . . . . .		Gift . . . . .	1,500.00		150,000.00
		Interest . . .	20.79	Bot. M. G. Ex.	
Gift for cases, Botanical Museum, . .	890.33	" . . . . .	23.90	Bot. M. Sp. "	714.23
Gifts for Gray Herbarium—current use,		Gifts . . . . .	1,290.00	Gray H. G. "	
Amounts carried forward, \$32,409,247.79					\$2,695,811.62
					\$31,020,148.02

# SUNDRY (continued)

	<i>Principal, July 1, 1917</i>	<i>Receipts</i>	<i>Expenditures</i>	<i>Suspense</i>	<i>Principal, June 30, 1918</i>	<i>Totals</i>
Amounts brought forward, \$32,409,247.79					\$2,695,311.62	\$31,020,148.02
Gifts for Semitic Museum, . . . . .	3,027.47	Interest . . . \$90.64				
		Sales . . . . . 4.17	Sem. M. Sp. Ex. \$6.40	.....	3,115.88	
Gifts for Semitic Museum Collection (balance), . . . . .	798.96	Interest . . . 28.98	" " " 3.00	.....	819.89	
Gift for Copying Cuneiform Tablets, . .	226.99	.....	.....	.....	226.99	
Gifts for Excavations in Palestine (balance), . . . . .	1,885.23	" " " 40.44	" " " 96.60	.....	1,829.07	
Gifts for Chinese Students (balance), .	107.00	.....	.....	.....	107.00	2,700,910.45

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## FUNDS IN TRUST FOR PURPOSES NOT CONNECTED WITH THE COLLEGE

Daniel Williams (1716), . . . . .	\$16,789.26	Interest . . . \$84.63	F. & G. Sp. . \$569.83	.....	\$17,084.06
Sarah Winslow (1790), . . . . .	4,811.64	" " " 247.83	" " " 247.17	.....	4,812.29
					21,896.35
					<u>\$33,742,954.82</u>

## SUMMARY:

Restricted uses, income only available . . . . .	\$38,424,827.71
Restricted uses, principal and income available . . . . .	1,822,122.25
Unrestricted uses, income only available . . . . .	2,638,306.39
Unrestricted uses, principal and income available . . . . .	862,698.47
	<u>\$33,742,954.82</u>

# **SCHEDULE 5, PART I**

## **TABLE OF SIGNIFICANT INCREASES AND DECREASES**

**For the year ended June 30, 1918**

	<b>Increase</b>	<b>Decrease</b>
<b>Investments, total, . . . . .</b>	<b>\$1,587,611.27</b>	
<b>Securities, Special, . . . . .</b>	<b>\$255,878.45</b>	
<b>Securities, General, . . . . .</b>	<b>1,179,716.78</b>	
<b>Land and Buildings, Special, . . . . .</b>	<b>28,132.20</b>	
<b>Land and Buildings, General, . . . . .</b>	<b>124,888.84</b>	
<b>General Suspense (see Schedule 5, Part II), . . .</b>		<b>\$59,918.10</b>
<b>Funds and Gifts (see Schedule 5, Part III), . . .</b>	<b>\$1,806,560.48</b>	
<b>Gains and Losses on General Investments sold, . .</b>	<b>\$6,295.00</b>	
<b>Income unapportioned, . . . . .</b>		<b>\$2,499.54</b>
<b>Income advanced, . . . . .</b>	<b>\$3,446.75</b>	

## SCHEDULE 5, PART II

### SUMMARY OF CHANGES IN GENERAL SUSPENSE

Departments, activities, and funds having credit balances June 30, 1918, . . . . .	\$235,400.08	
Departments, activities, and funds having credit balances June 30, 1917, . . . . .	161,012.04	
Increase of credit balances, . . . . .		\$74,388.04
Departments, activities, and funds having debit balances, June 30, 1918, . . . . .	\$605,577.47	
Departments, activities, and funds having debit balances June 30, 1917, . . . . .	591,107.53	
Increase of debit balances, . . . . .		14,469.94
		<u>\$59,918.10</u>
Surpluses for the year carried to General Suspense, . . . . .	\$39,633.28	
Insurance money Dane Hall and Foxcroft House, . . . . .	70,004.38	
Advances returned, improvements Treasurer's Real Estate Investments, . . . . .	19,362.88	
Other advances returned, . . . . .	9,180.88	
Deposits returnable . . . . .	9,497.00	
Other credits, . . . . .	58.80	
	<u>\$147,787.17</u>	
<i>Less</i> Deficits for year carried to		
General Suspense, . . . . .	\$77,619.87	
Advances to Funds and Gifts, . . . . .	8,899.54	
Deposit returned, . . . . .	1,799.66	87,819.07
		<u><u>\$59,918.10</u></u>

## SCHEDULE 5, PART III

### SUMMARY OF CHANGES IN FUNDS AND GIFTS

Gifts for Capital, Exhibit D, page 18, . . . . .	\$746,546.70	
Gain on sale of Special Investments, . . . . .	2,363.66	
Unexpended restricted income transferred to Funds and Gifts, Exhibit B, page 8, . . . . .	853,411.56	
Other receipts, . . . . .	204,689.81	
	<u>\$1,807,011.73</u>	
Expenditures charged to Funds and Gifts, . . . . .	451.25	
		<u><u>\$1,806,560.48</u></u>

# SCHEDULE 6, PART I

## GENERAL SUSPENSE

### CREDIT BALANCES

June 30, 1918

July 1, 1917	June 30, 1918
\$3,898.51 Cryptogamic Herbarium, . . . . .	\$3,687.77
11,068.26 Gray Herbarium, . . . . .	11,145.45
4,115.15 Graduate School of Business Administration, . . . . .	3,533.65
5,651.10 Graduate Schools of Applied Science, . . . . .	5,933.66
4,455.86 Summer Schools, . . . . .	.....
3,404.97 Divinity School, . . . . .	3,963.72
76,837.96 Law School, . . . . .	70,252.86
8,620.87 Graduate School of Medicine, . . . . .	6,865.19
23,884.80 Museum of Comparative Zoölogy, . . . . .	27,295.16
3,430.23 Peabody Museum of American Archaeology and Ethnology, . . . . .	4,501.95
5,853.87 Germanic Museum, . . . . .	7,902.73
1,427.10 Botanical Museum, . . . . .	765.73
4,267.72 Botanic Garden, . . . . .	453.76
52.15 Stillman Infirmary, . . . . .	.....
..... Forestry Operations at Petersham, Mass., . . . . .	302.80
121.31 Laboratory Fees, Astronomy, . . . . .	219.38
25.00 " " Botany (Fernald), . . . . .	26.37
244.34 " " Botany (Thaxter), . . . . .	189.25
35.93 " " Forestry, . . . . .	35.93
437.20 " " Geology, . . . . .	761.17
..... " " Hygiene and Sanitation, . . . . .	.10
..... " " Zoölogy, . . . . .	308.50
708.96 Microscope Fees, Medical School, . . . . .	1,613.73
1,799.66 Gray Estate, . . . . .	.....
..... Class of 1893, Twenty-fifth Anniversary Fund, . . . . .	2,000.00
1,176.09 War Hero Memorial, . . . . .	1,234.39
..... Harvard Coöperative Society Deposit, . . . . .	7,497.00
..... Foxcroft House Fire Account, . . . . .	24,278.33
..... Dane Hall Fire Account, . . . . .	45,726.00
<u>\$161,012.04</u>	<u>\$235,400.08</u>

**SCHEDULE 6, PART II**

**GENERAL SUSPENSE**

**DEBIT BALANCES**

July 1, 1917	June 30, 1918	June 30, 1918
Advances from General Investments to :		
\$2,300.00 Aids, general, . . . . .		.....
..... Anonymous Gift for Scholarship, . . . . .		\$90.00
2.50 Bureau Economic Research, . . . . .		.....
33,044.56 Bussey Trust (Real Estate), . . . . .		58,536.44
25.83 Gift Carnegie Foundation, . . . . .		.....
56.01 Classical Library Fund, . . . . .		.....
544.34 Classical Publication Fund of the Class of 1856, .		73.47
150.00 Class of 1857 Fund, . . . . .		.....
..... Class of 1898 Tree Fund, . . . . .		65.00
48,177.84 Dental School, . . . . .		52,531.31
104,020.26 Dental School Building, . . . . .		104,020.26
132.40 Charles Dexter Memorial, . . . . .		757.91
28,579.38 Estate 59-63 Franklin St., . . . . .		.....
9,703.26 " 128-136 Federal St., . . . . .		9,131.76
15,413.59 Estate 364-366 Washington St., . . . . .		14,413.59
..... Gift for expenses development plan of the University,		89.88
..... Flattery Research Fund, . . . . .		122.14
2,251.27 Forestry Operations at Petersham, . . . . .		.....
1.63 Edwin William Friend Memorial, . . . . .		.....
28.93 George A. Gardner Fund, . . . . .		11.04
41,651.71 Gerrish Block, . . . . .		34,061.83
..... Walcott Gibbs Endowment, . . . . .		246.16
..... Harvard Club of Cleveland Scholarship, . . . . .		100.00
..... " " Fall River " . . . . .		50.00
..... " " Louisiana " . . . . .		50.00
110.00 " " Newburyport " . . . . .		.....
150.00 " " New Hampshire Scholarship, . . . . .		150.00
..... " " St. Louis " . . . . .		300.00
50.00 " " Syracuse " . . . . .		50.00
816.26 Harvard Economic Studies, . . . . .		505.00
41,490.54 Harvard University Press, . . . . .		40,588.16
..... W. Frederick Kimball Bequest, . . . . .		307.37
99.13 Loan to Officer, . . . . .		104.09
29,108.47 Medical School, . . . . .		52,200.89
..... Medical School, Gift of National Cannery Association,		575.73
3,000.00 Old Boston Music Hall Estate, . . . . .		2,000.00
1,000.00 Otis and Arch Streets Estate, . . . . .		.....
825.00 Peabody Museum Gifts for Special Use, . . . . .		.....
..... Philadelphia Scholarship, . . . . .		118.87
..... Summer Schools, . . . . .		611.02
<b>\$357,732.91</b> . . . . . Amounts carried forward, . . . . .		<b>\$371,811.33</b>

## GENERAL SUSPENSE — DEBIT BALANCES

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July 1, 1917	June 30, 1918
<b>\$357,782.91</b> . . . Amounts brought forward, . . . . .	<b>\$371,811.82</b>
419.58 <b>Ambrose Talbot Bequest</b> , . . . . .	440.51
714.90 <b>Henry Warren Torrey Fund</b> , . . . . .	80.44
200.00 <b>Walter R. Tower Fund</b> , . . . . .	210.00
10,227.94 <b>Townsend Estate</b> , . . . . .	7,527.94
187,915.68 <b>Tunnel for steam pipes to College Buildings</b> , . . . . .	187,915.63
23,428.45 <b>Webb Estate</b> , . . . . .	21,009.45
8,983.98 <b>Woodland Hill Fund</b> , . . . . .	8,880.68
9.53 <b>Laboratory Fees, Botany (Osterhout)</b> , . . . . .	.....
1,073.64     " <b>Chemistry</b> , . . . . .	2,615.44
.....     " <b>Mineralogy</b> , . . . . .	15.45
<b>Library Funds:</b>	
451.25 <b>Horace Davis Bequest</b> , . . . . .	22.56
4.82 <b>Sales</b> , . . . . .	.....
..... <b>Evert Jansen Wendell Fund</b> , . . . . .	5,597.60
<b><u>\$591,107.53</u></b> . . . . .	<b><u>\$605,577.47</u></b>
Debit balances, . . . . .	<b>\$605,577.47</b>
Credit balances, . . . . .	<b>235,400.08</b>
Net debit balance to Exhibit A, page 6 .	<b><u>\$370,177.39</u></b>

## UNIVERSITY

## INCOME AND EXPENDITURE

For the year ended June 30, 1918

## INCOME

## Income of the following Funds :

Charles Allen, . . . . .	\$154.50
Walter F. Baker, . . . . .	97.08
William H. Baldwin, Jr., . . . . .	103.00
Band Music, . . . . .	58.86
Caroline M. Barnard Bequest, . . . . .	2,718.67
John Barnard, . . . . .	34.85
J. Arthur Beebe Bequest, . . . . .	10,881.36
Andrew Bigelow, . . . . .	254.92
Stanton Blake, . . . . .	257.50
S. Parkman Blake and Robert Parkman Blake Memorial, . . . . .	2,462.11
Charlotte F. Blanchard, . . . . .	245.71
Samuel D. Bradford, . . . . .	270.88
Martin Brimmer, . . . . .	2,575.00
James C. Carter, . . . . .	2,621.09
John W. Carter, . . . . .	1,026.90
Fund of the Class of 1842, . . . . .	7.94
Class of 1881, . . . . .	5,917.80
" 1882, . . . . .	5,150.00
" 1883, . . . . .	5,029.28
" 1888, . . . . .	4,761.50
" 1889, . . . . .	5,051.15
" 1890, . . . . .	4,429.00
" 1891, . . . . .	5,150.00
" 1892, . . . . .	3,500.00
" 1893, . . . . .	46.35
" 1894, . . . . .	740.21
" 1896, . . . . .	775.90
" 1899, . . . . .	1,489.59
John Coggan, . . . . .	77.25
Edwin Conant, . . . . .	54.69
Edward Erwin Coolidge (part), . . . . .	842.35
Thomas Cotton, . . . . .	7.98
John Cowdin, . . . . .	1,742.50
George B. Dorr, . . . . .	9,528.57
George Draper, . . . . .	3,979.80
R. H. Eddy, . . . . .	4,668.80
Harvard Ellis, . . . . .	5,213.09
Richard W. Foster, . . . . .	1,077.32
Amount carried forward, . . . . .	\$92,992.00

## UNIVERSITY (CONTINUED)

## INCOME

Amount brought forward, . . . . . \$92,992.00

Income of the following Funds (*continued*).

<b>John Davis Williams French,</b> . . . . .	437.45	
<b>Gore,</b> . . . . .	1,059.41	
<b>John C. Gray,</b> . . . . .	2,053.39	
<b>Henry Harris</b> ( $\frac{1}{2}$ income), . . . . .	770.93	
<b>Harvard Foundation for Exchanges with French Universities,</b> . . . . .	1,755.33	
<b>Walter Hastings,</b> . . . . .	1,139.44	
<b>Henry L. Higginson,</b> . . . . .	6,059.07	
<b>Thomas Hollis,</b> . . . . .	26.78	
<b>Thomas Hubbard,</b> . . . . .	51.50	
<b>Nathaniel Hulton,</b> . . . . .	22.87	
<b>Thomas Hutchinson,</b> . . . . .	12.00	
<b>George Baxter Hyde,</b> . . . . .	257.50	
<b>Leonard Jarvis,</b> . . . . .	868.91	
<b>Henry P. Kidder,</b> . . . . .	515.00	
<b>Joseph Lee,</b> . . . . .	821.59	
<b>Morris Longstreth Bequest,</b> . . . . .	1,211.23	
<b>Theodore Lyman,</b> . . . . .	515.00	
<b>Robert C. McIlwain Bequest,</b> . . . . .	355.61	
<b>Gordon McKay Endowment,</b> . . . . .	75,330.17	
<b>Henry T. Morgan,</b> . . . . .	1,266.13	
<b>Israel Munson,</b> . . . . .	811.12	
<b>Henry S. Nourse (part),</b> . . . . .	1,698.60	
<b>Francis E. Parker,</b> . . . . .	9,347.08	
<b>George F. Parkman,</b> . . . . .	206.31	
<b>William Perkins,</b> . . . . .	1,545.00	
<b>President's,</b> . . . . .	3,324.89	
<b>Ezekiel Rogers,</b> . . . . .	182.05	
<b>Daniel Russell,</b> . . . . .	77.97	
<b>John L. Russell,</b> . . . . .	1,203.56	
<b>Isaac Sweetser,</b> . . . . .	2,416.02	
<b>Seth Turner,</b> . . . . .	257.50	
<b>William F. Weld,</b> . . . . .	8,212.35	\$216,803.76

Income of Graduate Schools of Applied Science balance, . . . . . 282.56

## Gifts for Trees :

Anonymous, Gift for legal expenses . . .	\$45.00	
<b>Robert L. McCook,</b> interest, . . .	21.25	\$66.25

## Gift for equipment of University Directory

Office, . . . . .	500.00	
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Gift for expenses of War Records Office, . . . 1,117.13

Gifts for general purposes, . . . . . 300.00 1,983.38

Amount carried forward, . . . . . \$219,069.70

## UNIVERSITY (CONTINUED)

## INCOME

Amount brought forward, . . . . .			\$219,069.70
Care of the Sarah Winslow Fund, . . . . .	\$6.20		
Use of houses by College officers, . . . . .	1,050.00		
Use of land by Harvard Union and Varsity Club, . . . . .	1,855.57		
Sale of University Directory, . . . . .	44.64		
Sale of Annual Catalogue, . . . . .	238.72		
Sale of Quinquennial Catalogue, . . . . .	34.26		
Sale of waste paper, wood, junk, etc., . . . . .	658.89		
Sale of flag, . . . . .	50.00		
Harvard Athletic Association, rent rooms in Harvard Union, . . . . .	480.00		
Rent of 38 Quincy St., . . . . .	900.00		
Receipts of University Directory Office, . . . . .	151.60		
Receipts from use of Motor Trucks . . . . .	\$3,276.68		
Less expenses . . . . .	2,189.75	1,086.88	
Receipts of University Printing Office, . . . . .	\$89,452.22		
Less expenses contra, . . . . .	87,294.52	2,157.70	8,714.46
Harvard University Press :			
Sales of publications, . . . . .	\$76,542.45		
Expenses of publications paid by other departments, . . . . .	24,872.00		
Gifts, . . . . .	1,500.00		
Other receipts, . . . . .	3,170.00		
	\$106,084.45		
Deduct sales of publications credited to other Departments, . . . . .	11,620.95	94,463.50	
Receipts from U. S. Naval Radio School, . . . . .		877,140.25	
		\$1,199,387.91	

## EXPENDITURE

Board of Overseers :			
Salaries, . . . . .	\$500.00		
Reports of President and Treasurer, . . . . .	2,579.59		
General Printing, . . . . .	493.90		
Stationery, postage, telephone and telegraph, . . . . .	130.22		
Auditing Treasurer's accounts, . . . . .	300.00		
Advertising, . . . . .	59.00		
Luncheon . . . . .	146.25		
Sundries, . . . . .	11.57	\$4,220.53	
Corporation Office :			
Fuel, rent, etc., . . . . .	\$2,585.04		
Less 80% transferred to the Treasurer's Office, . . . . .	2,068.08	517.01	
President's Office :			
Salaries :			
President, . . . . .	\$6,000.00		
Comptroller, . . . . .	1,250.02		
Amounts carried forward, . . . . .	\$7,250.02	\$4,737.54	

## UNIVERSITY (CONTINUED)

## EXPENDITURE

Amounts brought forward, . . . . .	\$7,250.02	\$4,737.54
<b>President's Office</b> ( <i>continued</i> ).		
Services and wages, . . . . .	3,183.18	
Equipment and supplies, . . . . .	263.10	
Stationery, postage, telephone and telegraph, . . . .	1,562.04	
Printing, . . . . .	617.20	
Sundries, . . . . .	44.23	
	<u>\$12,919.77</u>	
Less 90% transferred to departments in proportion to the number of students, . . . . .	11,627.79	
	<u>\$1,291.98</u>	
Additional salary of President:		
From President's Fund, . . . . .	3,320.00	
From Thomas Cotton Fund, . . . . .	7.98	4,619.96
		<u>4,619.96</u>
<b>Treasurer's Office:</b>		
Salaries:		
Treasurer, . . . . .	\$6,000.00	
Other salaries, . . . . .	4,000.00	
Services and wages, . . . . .	1,772.73	
Office supplies and expenses, . . . . .	509.85	
Rent of safes, . . . . .	790.00	
Dues Mass. Street Railways Association, . . . . .	100.00	
Dues National Association of Owners of Railroad Securities, . . . . .	200.00	
University charge:		
Corporation Office, . . . . .	2,068.03	
	<u>\$15,440.61</u>	
Less transferred:		
To Departments in proportion to the income of their Funds, . . . . .	18,754.33	
The balance represents proportion on income of University Funds, . . . . .		1,636.23
<b>Bursar's Office:</b>		
Salaries:		
Bursar, . . . . .	\$4,500.00	
Assistant Comptroller, . . . . .	3,000.00	
Services and wages, . . . . .	17,001.95	
Mercantile Agency, . . . . .	925.00	
Auditing accounts, . . . . .	1,200.00	
Equipment and supplies, . . . . .	383.83	
Stationery, postage and telephone, . . . . .	2,090.81	
Printing, . . . . .	792.81	
Miscellaneous, . . . . .	162.92	
	<u>\$30,057.32</u>	
Amounts carried forward, . . . . .	\$30,057.32	\$11,048.78

## UNIVERSITY (CONTINUED)

## EXPENDITURE

Amounts brought forward, . . . . .	\$30,057.82	\$11,048.78
<b>Bursar's Office (<i>continued</i>).</b>		
Less transferred :		
To the College for letting College rooms, . . . . .	\$800.00	
To Departments in proportion to the Bursar's collections and payments, . . . . .	26,320.72	27,120.72
The balance represents proportion applicable to University collections and payments, . . . . .		2,986.60
<b>Publication Office :</b>		
Salary :		
Publication Agent, . . . . .	\$3,125.00	
Services and wages, . . . . .	705.28	
Office supplies and expenses, . . . . .	9,065.33	
	\$12,895.61	
Less charged directly to Departments, . . . . .	9,948.93	
Balance transferred to Departments in proportion to the free distribution of their publications, . . . . .	\$2,946.68	
<b>Inspector of Grounds and Buildings :</b>		
Salary :		
Inspector of Grounds and Buildings, . . . . .	\$4,800.00	
Services and wages, office, . . . . .	3,649.74	
Services and wages, head carpenter, . . . . .	1,812.33	
Office supplies and expenses, . . . . .	478.12	
	\$10,740.19	
Less amount received for superintendence . . . . .	845.08	
	\$9,895.11	
Less transferred to Departments in proportion to work done, . . . . .	8,147.67	1,747.44
<b>Janitor's Office :</b>		
Janitor, . . . . .	\$2,016.70	
Assistant Janitor, . . . . .	1,285.07	
Office supplies and expenses, . . . . .	129.08	
	\$3,430.85	
Less transferred to Departments in proportion to the floor area of buildings under Janitor's supervision, . . . . .	3,430.85	
<b>Quinquennial Catalogue and University Directory (part) :</b>		
Salary editor, . . . . .	\$100.00	
Services and wages, . . . . .	3,237.61	
Office expenses, . . . . .	1,056.27	4,393.88
Amount carried forward, . . . . .		\$20,121.70

## UNIVERSITY (CONTINUED)

## EXPENDITURE

Amount brought forward, . . . . .		\$20,131.70
<b>Office of Editor of University Directory :</b>		
Services and wages, . . . . .	\$2,182.59	
Equipment and supplies, . . . . .	2,764.73	
Stationery and postage, . . . . .	193.93	
Printing, . . . . .	106.02	
Sundries, . . . . .	110.45	5,857.72
<b>War Records Office :</b>		
Services and wages, . . . . .	\$750.66	
Equipment and supplies, . . . . .	376.14	
Stationery and postage, . . . . .	148.40	
Printing, . . . . .	263.95	
Sundries, . . . . .	20.10	1,559.25
<b>Annual Catalogue :</b>		
Printing and supplies, . . . . .	\$4,980.54	
Less sales, . . . . .	238.72	
Amount to be apportioned to departments, . . . .	\$4,741.82	
Less transferred to departments in proportion to space occupied, . . . . .	3,651.20	
Amount paid by University :		
General Funds, . . . . .	\$1,090.62	
Amount paid by proceeds from sales, . . . . .	238.72	1,329.34
<b>Chief Engineer :</b>		
Services and Wages, . . . . .	\$2,125.67	
Miscellaneous, . . . . .	78.08	
	\$2,198.70	
Less transferred to Departments in proportion to the floor area of buildings under Engineer's super- vision, . . . . .	2,099.06	99.64
Watchmen, . . . . .	\$4,674.40	
Transferred to Departments in proportion to floor area of buildings, . . . . .	4,238.94	435.46
<b>Medical Adviser's Office :</b>		
Salary Medical Adviser, . . . . .	\$4,000.00	
Services and wages, . . . . .	628.40	
Office supplies and expenses, . . . . .	306.53	
Sundries, . . . . .	345.00	
	\$5,179.93	
Less amount transferred : \$750 to the Stillman Infirmary and the remainder to Cambridge Departments in proportion to the number of students, . . . . .	5,179.93	
Amount carried forward, . . . . .		\$28,908.11

## UNIVERSITY (CONTINUED)

## EXPENDITURE

Amount brought forward, . . . . .		\$28,903.11
<b>Regent's Office :</b>		
Office expenses, . . . . .	\$16.29	
Less transferred to Cambridge Departments in proportion to the number of students, . . . . .	16.29	
<b>Purchasing Agent :</b>		
Salary and expenses, . . . . .	\$2,135.15	
Transferred to Departments, . . . . .	2,135.15	
<b>University Printing Office :</b>		
Salaries, . . . . .	\$2,339.38	
Services and wages, . . . . .	38,098.13	
Supplies and equipment, . . . . .	29,647.12	
Printing done in commercial plants, . . . . .	2,441.67	
Binding done in commercial plants, . . . . .	9,945.16	
Water, heat, light and insurance, . . . . .	3,919.20	
Express and teaming, . . . . .	840.80	
Repairs, . . . . .	521.60	
Miscellaneous, . . . . .	42.06	
	\$87,294.52	
Expenses carried contra and deducted from sales to Departments, . . . . .	87,294.52	
<b>Harvard University Press :</b>		
Salary of Director, . . . . .	\$892.86	
Services and wages, . . . . .	6,360.22	
Equipment and supplies, . . . . .	2,596.06	
Stationery, postage, telephone and telegraph, . . . . .	3,581.41	
Printing, . . . . .	58,984.11	
Payments to authors on account of sales, . . . . .	8,374.07	
Honoraria . . . . .	840.84	
Advertising, . . . . .	3,866.14	
Freight and express, . . . . .	1,214.90	
Binding, . . . . .	2,732.54	
Interest on advances, . . . . .	1,905.37	
Expenses of New York Office, . . . . .	1,712.92	
Books purchased, . . . . .	728.61	
Sundries, . . . . .	189.08	98,979.13
<b>Memorial Hall and Sanders Theatre :</b>		
Repairs and equipment, . . . . .	\$216.58	
Caretaking, . . . . .	678.48	
	\$895.01	
Less 90 % transferred to College, . . . . .	805.51	89.50
Repairs and caretaking, general, . . . . .		2,912.04
Taxes, Harvard Union and Varsity Club, . . . . .		7,364.03
Amount carried forward, . . . . .		\$133,247.80

## UNIVERSITY (CONTINUED)

## EXPENDITURE

Amount brought forward, . . . . .		\$138,247.80	
<b>General Expenses :</b>			
Salary Secretary, . . . . .	\$8,500.00		
Salary Dean of University Extension, . . . . .	400.00		
Salary Sanitary Inspector, . . . . .	500.00		
Expenses Real Estate in Lucas St., Boston, . . . . .	125.67		
University Gazette, . . . . .	\$1,552.15		
Less sales, . . . . .	267.79	1,284.86	
Maintenance of grounds, . . . . .		8,877.71	
Trees and shrubs :			
From General Funds, . . . . .	\$5,055.47		
" Gifts, . . . . .	180.00	5,185.47	
Street watering, . . . . .		669.82	
Commencement Day, . . . . .		926.93	
Work on pictures, . . . . .		51.28	
Dues to American Association of Universities, . . . . .		40.00	
Yard fences, . . . . .		86.53	
Amount paid to Museum of Comparative Zoölogy as income on the Agassiz Estate, Quincy St., . . . . .		2,060.00	
Excess of expenses over income Agassiz Estate, Quincy St., . . . . .		10.88	
Services head guide, . . . . .		150.00	
Delivery service, . . . . .		230.67	
Interest on advances — Yard heat tunnel, . . . . .		9,395.78	
Equipment and supplies, . . . . .		85.65	
Expenses of Exchange Professor with France, . . . . .		600.00	
Bursar's Office — renewal of equipment damaged by fire and expenses of moving office to Varsity Club, . . . . .		2,965.04	
Legal services, . . . . .		1,342.16	
Appraisal of buildings for insurance purposes, . . . . .		1,575.00	
Plate for printing degrees for men entering war service, . . . . .		491.00	
New flags, . . . . .		204.88	
Work on roads, . . . . .		786.17	
Travelling expenses of delegates, . . . . .		158.75	
Harvard Union :			
Heat, light and caretaking, . . . . .	\$852.35		
Repairs, . . . . .	146.73		
Other expenses, . . . . .	86.66	1,085.74	
Sundries, . . . . .		188.84	42,927.28
U. S. Naval Radio School, expenses, charges and reserves for restoration of grounds, building and equipment, . . . . .			877,140.25
Amount carried forward, . . . . .			\$1,053,815.28

## UNIVERSITY (CONTINUED)

## EXPENDITURE

		Amount brought forward, . . . . .	\$1,053,315.23	
<b>From Gifts:</b>				
		Gift for expenses of development plan of University, . . . . .		314.46
<b>Payments made from University income for the following accounts:</b>				
		Museum of Comparative Zoölogy, . . . . .	Sch. 27	\$667.89
		Peabody Museum of American Archaeology and Ethnology, . . . . .	Sch. 28	4,255.64
		Semitic Museum, . . . . .	Sch. 29	1,082.89
		Germanic Museum, . . . . .	Sch. 30	157.42
		William Hayes Fogg Art Museum, . . . . .	Sch. 31	464.45
		Phillips Brooks House, . . . . .	Sch. 33	239.63
		Stillman Infirmary, . . . . .	Sch. 35	9,605.89
				<u>16,473.31</u>
				\$1,070,108.05
<b>Balance constituted as follows:</b>				
Balance of restricted income carried to				
		Funds and Gifts, . . . . .		\$80,338.44
		General Suspense, . . . . .		766.93
Surplus in General Income carried to				
		Schedule 10, . . . . .		49,602.70
				<u>\$180,708.07</u>
<b>Less</b>				
Deficiency in restricted income met by				
		Charges against Funds and Gifts, . . . . .	\$1,268.33	
		Advance from General Suspense, . . . . .	154.88	1,423.21
				<u>129,284.86</u>
				<u><u>\$1,199,387.91</u></u>

COLLEGE

(Including the Graduate School of Arts and Sciences)

INCOME AND EXPENDITURE

For the year ended June 30, 1918

INCOME

Income of Funds for Instruction and Gifts for Salaries.

Alford Professorship, . . . . .	\$1,444.42
Percy Lee Atherton Gift (part), . . . . .	250.00
Edward Austin (part), . . . . .	\$10,815.66
Austin Teaching Fellowships, . . . . .	6,582.92
John B. Barringer, . . . . .	1,580.88
Boylston Professorship, . . . . .	1,459.35
Class of 1880, . . . . .	5,888.95
Class Subscription, . . . . .	7,757.86
Eaton Professorship, . . . . .	5,922.55
Eliot Professorship, . . . . .	1,113.38
Eliot Professorship (Jno. Phillips' Gift), . . . . .	350.00
Calvin and Lucy Ellis Aid (part), . . . . .	8,536.81
Erving Professorship, . . . . .	180.25
Fisher " . . . . .	2,147.76
Henry Flynt, . . . . .	22.45
Fund for Permanent Tutors, . . . . .	836.36
Gospel Church ( $\frac{1}{2}$ income used), . . . . .	467.05
Gurney (part), . . . . .	9,805.00
Hersey Professorship ( $\frac{1}{2}$ income), . . . . .	624.71
Hersey Professorship (Thomas Lee's gift), . . . . .	1,119.82
Hollis " (Mathematics), . . . . .	192.97
John E. Hudson Professorship, . . . . .	7,505.30
Abbott Lawrence (part), . . . . .	1,584.55
James Lawrence (part), . . . . .	1,297.16
Henry Lee Professorship, . . . . .	5,808.95
Thomas Lee, for Reading, . . . . .	813.55
Arthur T. Lyman, . . . . .	8,090.00
Charles Nicholas McCall, . . . . .	1,530.94
Gordon McKay Endowment (part), . . . . .	1,833.00
McLean Professorship, . . . . .	2,217.74
Francis Greenwood Peabody (part), . . . . .	2,299.39
Daniel H. Peirce, . . . . .	778.94
Perkins Professorship, . . . . .	1,186.66
Pope Professorship, . . . . .	2,703.75
Professorship of Latin-American History and Economics (part), . . . . .	850.00
Professorship of Hygiene (1899), (part), . . . . .	4,000.00
Nelson Robinson, Jr. Additional, . . . . .	438.37
Eliza O. and Mary P. Ropes (part), . . . . .	5,000.00
Amount carried forward, . . . . .	\$108,931.95

## COLLEGE (CONTINUED)

## INCOME

Amount brought forward, . . . . \$108,981.95

## Income of Funds for Instruction and Gifts for Salaries

*(continued).*

Rumford Professorship, . . . . .	3,222.15	
Smith Professorship, . . . . .	1,191.71	
Teachers' Endowment:		
Interest (part), . . . . .	\$102,686.56	
Gift, . . . . .	400.00	103,086.56
Unknown Memorial (part), . . . . .	3,350.00	
Henry Villard, . . . . .	4,106.36	
Henry W. Wales:		
Wales Professorship (part), . . . . .	1,736.31	
Henry C. Warren (part), . . . . .	3,763.69	
Sylvester Waterhouse, . . . . .	561.20	
David A. Wells (part), . . . . .	999.51	
Jerome Wheelock, . . . . .	10.66	
Morrill Wyman Fund (part) . . . . .	1,500.00	
Gifts for salaries, . . . . .	20,628.35	\$253,088.45
Income of Funds for General Purposes.		
John W. P. Abbot (accumulating), . . . .	\$939.25	
Thomas J. Allen, . . . . .	1,550.41	
John A. Blanchard, . . . . .	54.08	
Class of 1884, . . . . .	5,155.15	
" 1885, . . . . .	5,759.76	
" 1886, . . . . .	5,150.00	
" 1887, . . . . .	5,150.00	
Edward W. Codman, . . . . .	17,893.06	
George G. Crocker, . . . . .	257.50	
Charles L. Hancock (part), . . . . .	5,673.91	
Harvard Endowment, . . . . .	9,332.27	
Matchett, . . . . .	16,737.50	
Emily H. Moir Bequest, . . . . .	2,506.46	
Trenor L. Park, . . . . .	1,128.62	
Jonathan Phillips, . . . . .	1,622.25	
William M. Spackman, . . . . .	128.75	
Henry Baldwin Stone Memorial, . . . .	3,300.00	
Edward Wheelwright Bequest, . . . .	3,862.50	
Davies Wilson, . . . . .	280.01	
Gifts for General Purposes, . . . . .	75.00	86,056.43
Income of Fellowship Funds, and Gifts for Fellowships, . . . .	51,355.94	
Income of Scholarship Funds, and Gifts for Scholarships, . . .	80,705.45	
Income of Beneficiary and Loan Funds, and Repayments, . . .	57,114.81	
Income of Prize Funds, and Gifts for Prizes, . . . . .	5,759.39	
Amount carried forward, . . . . .		\$253,980.53

## COLLEGE (CONTINUED)

## INCOME

Amount brought forward, . . . . .		\$588,980.52
<b>Income of Sundry Funds for Special Purposes:</b>		
Percy Lee Atherton Gift, . . . . .	\$287.04	
Botanic Department (part):		
½ for Cryptogamic Herbarium, . . .	\$512.17	
½ for Laboratories of Botany, . . .	256.08	768.25
William H. Baldwin, Jr., 1885, . . . .		287.88
Louise E. Bettens:		
Interest, . . . . .	\$1,042.46	
Gift for income, . . . . .	300.00	1,342.46
Charles Osmyn Brewster, . . . . .		527.72
Classical Publication Fund of the Class of 1886:		
Interest, . . . . .		369.72
Class of 1883 Special, . . . . .		19.36
T. Jefferson Coolidge, for Research in Physics:		
Interest, . . . . .	\$930.35	
Gift for income, . . . . .	3,550.00	4,480.35
Cryptogamic Herbarium, . . . . .		169.68
Ernest B. Dane Fund in Physics, . . . .		2,100.04
Alexis Irenée Du Pont, . . . . .		4,997.50
Economics 2 Book Fund, sales publication, . . .		38.52
English A Fund:		
Sales of publication, . . . . .		580.30
George A. Gardner, . . . . .		283.25
Wolcott Gibbs Memorial:		
Interest, . . . . .	\$1,287.96	
Other receipts, . . . . .	278.74	1,566.70
Harvard Economic Studies:		
Sales of publications, . . . . .		1,413.06
Harvard Oriental Series, . . . . .		773.27
History Book Fund (History 1):		
Interest, . . . . .	\$13.15	
Sales of publications, . . . . .	263.74	276.89
Richard Hodgson Memorial, . . . . .		694.99
Charles W. Hubbard, . . . . .		250.00
Gardiner M. Lane Bequest, . . . . .		77.56
George H. Leatherbee Lecture Fund, . . .		2,840.45
Calvin Stoughton Locke Fund, . . . .		51.50
Solomon Lincoln Bequest:		
Interest, . . . . .	\$616.20	
Sale of publications, . . . . .	93.45	709.65
Joseph Lovering for Physical Research, . .		399.28
Mathematics Book Fund, sales of publications, .		69.29
Amounts carried forward, . . . .		\$25,874.66    \$588,980.52

## COLLEGE (CONTINUED)

## INCOME

Amounts brought forward, . . .	\$25,374.66	\$583,980.52
<b>Income of Sundry Funds for Special Purposes</b>		
<i>(continued).</i>		
Maria E. McMaster Bequest, . . . . .	303.90	
Music Building Maintenance Fund, . . . . .	2,778.99	
Francis Greenwood Peabody (part), . .	3,433.88	
Physical Laboratory Endowment, . . . . .	3,862.50	
Professorship of Latin-American History and Economics (part), . . . . .	3,680.08	
<b>General Publication Fund:</b>		
Sales of publications, . . . . .	\$4,034.99	
Interest, . . . . .	352.11	4,887.10
Robert W. Sayles, . . . . .	271.41	
George William Sawin, . . . . .	399.64	
Shaler Memorial Fund, . . . . .	1,857.76	
<b>Henry Warren Torrey:</b>		
Interest, . . . . .	\$515.00	
Sales, . . . . .	867.03	882.03
Unknown Memorial (part), . . . . .	1,800.00	
Cyrus M. Warren, . . . . .	370.39	
David A. Wells (part), . . . . .	4,331.85	
Henry C. Warren (part), . . . . .	2,518.39	
Morrill Wyman, . . . . .	1,414.28	57,661.36
<b>Sundry Gifts for Special Purposes:</b>		
Gifts, . . . . .	\$33,567.57	
Interest and other receipts, . . . . .	3,809.78	37,377.35
<b>Receipts from students.</b>		
<b>Tuition Fees — Regular Programme:</b>		
College Regular, . . . . .	\$272,195.00	
“ Special, . . . . .	3,525.00	
Unclassified, . . . . .	13,710.00	
Out of Course, . . . . .	2,785.00	\$292,215.00
Graduate School of Arts and Sciences, . .	35,146.00	
Radcliffe students in College courses, . .	2,775.00	
<b>Tuition Fees — Additional Courses:</b>		
College Regular, . . . . .	\$12,888.92	
Unclassified, . . . . .	860.00	
Out of Course, . . . . .	170.00	13,918.92
Auditors Fees, . . . . .		5.00
<b>Examination Fees:</b>		
Admission, . . . . .	\$2,247.00	
Condition, make-up and advanced standing, . . . . .	831.00	
Doctor of Philosophy, . . . . .	60.00	3,138.00
Amounts carried forward, . . . . .	\$347,197.92	\$629,019.33

## COLLEGE (CONTINUED)

## INCOME

Amounts brought forward, . . . . .		\$347,197.92	\$629,019.23
Receipts from students ( <i>continued</i> ).			
Graduation Fees, . . . . .		2,700.00	
Laboratory Fees:			
Astronomy, . . . . .	\$465.00		
Botany, . . . . .	182.50		
Chemistry, Boylston Hall, . . .	12,937.52		
Chemistry, Gibbs Laboratory, . .	81.05		
Education, . . . . .	17.50		
Engineering Sciences, . . . . .	150.00		
Geology, . . . . .	457.50		
Hygiene and Sanitation, . . . .	30.00		
Mineralogy, . . . . .	25.00		
Music, . . . . .	160.00		
Physics, . . . . .	473.50		
Psychology, . . . . .	45.00		
Zoology, . . . . .	314.55	15,289.12	
College Dormitories: Hollis, Stoughton, Holworthy, Thayer, Weld, Wadsworth House, and Conant, . .			
Matthews Hall, . . . . .	8,480.33		
	\$47,464.92		
Less $\frac{1}{2}$ net income from Matthews Hall, credited under income of Matthews Scholarship, . . .			
	1,165.63	46,299.29	
College Dormitories: Freshman Halls, . . . . .	72,632.33	484,118.66	
Sundries:			
Sale of Harvard Bulletins in Education, . . . .	\$410.05		
" Other Publications, . . . . .	106.16		
Royalty on sales Agamemnon of Aeschylus, . .	12.47		
Contributions for salary, . . . . .	1,250.00		
Duplicate diplomas, . . . . .	5.00		
Amount collected on term-bills charged off in previous years, . . . . .	284.73	2,018.41	
		<u>\$1,115,156.80</u>	

## COLLEGE (CONTINUED)

## EXPENDITURE

From Fellowship Funds and Gifts, . . . . .	\$20,095.41
From Scholarship Funds and Gifts, . . . . .	57,166.90
From Beneficiary and Loan Funds and Gifts, . . . . .	27,900.65
From Prize Funds and Gifts for Prizes, . . . . .	4,249.39
For Scholarships from General Funds.	
Graduate School of Arts and Sciences:	
University, . . . . .	4,200.00
From Sundry Funds and Balances for Special Purposes.	
Louise E. Bettens Fund, . . . . .	\$1,500.00
Charles O. Brewster Fund, Department of	
Music, . . . . .	600.00
Classical Publication Fund of the Class of 1856:	
Harvard Studies in Classical Philology, . . . . .	372.60
T. Jefferson Coolidge for Research in Physics, . . . . .	3,986.67
Cryptogamic Herbarium Fund, . . . . .	437.59
Ernest B. Dane Fund in Physics, . . . . .	1,246.82
Economics 2 Book Fund, . . . . .	4.88
English A Fund, . . . . .	507 73
George A. Gardner, for photographs, etc., for	
the Department of Geology, . . . . .	265.86
Wolcott Gibbs Memorial Endowment, . . . . .	2,304.17
Harvard Oriental Series, publications, . . . . .	787.79
Harvard Economic Studies, . . . . .	1,389.63
History Book Fund (History 1), . . . . .	82.39
Richard Hodgson Memorial, . . . . .	115.54
Gardiner M. Lane Bequest, . . . . .	73.75
Solomon Lincoln Bequest, . . . . .	271.54
Mathematics Book Fund, . . . . .	16.71
Music Building Maintenance Fund, . . . . .	1,961.62
Music Department Fund, . . . . .	2.00
Francis G. Peabody (part), . . . . .	1,855.88
General Publication Fund, . . . . .	3,014.11
Nelson Robinson, Jr. Additional (part).	
Psychological Laboratory, . . . . .	\$1,092.29
Books, . . . . .	250.83
Expenses, . . . . .	71.04
Librarian Department Philosophy, . . . . .	1,000.00
	\$2,414.16
Less amount paid for salaries, . . . . .	1,414.16
Robert W. Sayles for Department of Geology, . . . . .	114.40
Shaler Memorial, . . . . .	707.10
Henry Warren Torrey, publications, . . . . .	197.57
Unknown Memorial (part), services and expenses, . . . . .	1,800.00
Henry C. Warren, publications and books, . . . . .	2,828.55
David A. Wells, publishing prize essays, . . . . .	4,331.85
Jefferson Physical Laboratory Endowment, . . . . .	3,862.50
	35,552.91
Amount carried forward, . . . . .	\$149,165.26

## COLLEGE (CONTINUED)

## EXPENDITURE

Amount brought forward, . . . . .		\$149,165.26
From Gifts and Fees, etc., for Special Purposes, . . . . .		\$30,980.95
Administration Offices.		
Dean of the Faculty of Arts and Sciences :		
Salary, . . . . .	\$500.00	
Services and wages, . . . . .	1,535.66	
Office supplies and expenses, . . . . .	183.44	2,219.10
Dean of Harvard College :		
Salaries, . . . . .	\$8,500.00	
Services and wages, . . . . .	8,018.39	
Office supplies and expenses, . . . . .	2,792.68	19,311.07
Dean and Secretary of the Graduate School of Arts and Sciences :		
Salaries, . . . . .	\$3,500.00	
Services and wages, . . . . .	911.44	
Office supplies and expenses, . . . . .	767.60	5,179.04
Secretary Administrative Board for Special Students, Salary,		100.00
Secretary of the Faculty of Arts and Sciences :		
Salaries, . . . . .	\$500.00	
Services and wages, . . . . .	1,462.68	
Office supplies and expenses, . . . . .	335.26	2,297.94
Students Employment Office and Appointment Office :		
Salary of Secretary, . . . . .	\$1,200.00	
Services and wages, . . . . .	3,877.01	
Office supplies and expenses, . . . . .	1,083.96	6,160.97
Secretary Committee on Choice of Electives :		
Salary, . . . . .	\$1,250.00	
Services and wages, . . . . .	1,093.50	
Office supplies and expenses, . . . . .	289.06	2,632.56
Professor of Hygiene :		
Office expenses, . . . . .		102.39
Dean of the Graduate School of Business Administration :		
Salary, . . . . .		1,000.00
From Appropriations.		
Anthropology, . . . . .	\$43.01	
Astronomy, . . . . .	505.00	
Botany, . . . . .	2,581.94	
Classics, . . . . .	200.00	
Chemistry, . . . . .	4,110.00	
Economics, . . . . .	1,283.95	
Education, . . . . .	301.51	
English, . . . . .	255.75	
Amounts carried forward, . . . . .	\$9,281.16	\$219,149.28

## COLLEGE (CONTINUED)

## EXPENDITURE

Amounts brought forward, . . . . .	\$9,281.16	\$919,149.38
From Appropriations ( <i>continued</i> ).		
Engineering Sciences, . . . . .	2,258.58	
Fine Arts, . . . . .	1,065.80	
French and other Romance Languages, . . . . .	1,250.00	
Geology, . . . . .	1,172.76	
German, . . . . .	250.00	
Government, . . . . .	1.65	
History, . . . . .	214.75	
Mathematics, . . . . .	550.90	
Mineralogy and Petrography, . . . . .	105.42	
Music, . . . . .	96.25	
Philosophy, . . . . .	50.00	
Naval Courses, . . . . .	302.00	
Physics, . . . . .	3,849.14	
Psychology, . . . . .	207.50	
Zoölogy, . . . . .	1,922.89	22,478.80
From Laboratory Fees.		
Astronomy, . . . . .	\$366.98	
Botany, . . . . .	276.69	
Chemistry, Boylston Hall, . . . . .	14,479.32	
Chemistry, Gibbs Laboratory, . . . . .	81.05	
Education, . . . . .	17.50	
Engineering Sciences, . . . . .	150.00	
Geology, . . . . .	182.53	
Hygiene and Sanitation, . . . . .	29.90	
Mineralogy, . . . . .	40.45	
Music, . . . . .	160.00	
Physics, . . . . .	478.50	
Psychology, . . . . .	45.00	
Zoölogy, . . . . .	6.05	16,209.91
For College Public Buildings, which are not valued in the Treasurer's books.		
Repairs and Equipment, . . . . .	\$4,063.26	
Caretaking and Operating Expenses, . . . . .	36,867.96	40,931.22
For College Dormitories which are not valued in the Treasurer's books.		
Hollis, Stoughton, Holworthy, Thayer, Weld, Wadsworth House, Walter Hastings, Perkins, and Conant; and for Matthews Hall:		
Repairs and Equipment, . . . . .	\$5,906.53	
Caretaking and Operating Expenses, . . . . .	30,330.12	
Freshman Halls:		
Maintenance and depreciation, . . . . .	30,000.00	
Caretaking and Operating Expenses, . . . . .	52,010.20	108,246.85
Amount carried forward, . . . . .		\$407,011.07

## COLLEGE (CONTINUED)

## EXPENDITURE

General.		Amount brought forward, . . . . .	\$407,011.07
Salaries for Instruction :			
Edward Austin (part) :			
Austin Teaching Fellowships, \$6,582.92			
From Sundry Funds and Gifts, . 229,540.60			
From General Income, . . . . . 262,694.64			
			\$498,818.16
Expenses Engineering Camp at Squam Lake, . .	303.10		
Expenses Craft Memorial Laboratory, . . . . .	5,655.13		
Expenses Department of Military Science, . . .	6,384.75		
Tutors in Division History, Government and Economics, . . . . .	5,231.15		
Services and wages, . . . . .	8,508.66		
Proctors, . . . . .	1,980.91		
Equipment and supplies, . . . . .	897.63		
Blue-books, . . . . .	701.48		
Printing, . . . . .	7,164.57		
Diplomas, . . . . .	924.85		
Stationery, postage, telephone, etc., . . . . .	947.36		
Monitorships, . . . . .	845.90		
Subscription to American School of Classical Studies, . . . . .	250.00		
Music Class Day, . . . . .	125.00		
Allowance to Graduate School of Business Administration for salary of an instructor in 1916-17,	1,000.00		
Expenses for English 47, . . . . .	222.96		
Refreshments at Faculty Meetings, . . . . .	69.36		
Graduate School Reception, . . . . .	23.00		
Insurance on apparatus, . . . . .	82.78		
Instruction in Summer Courses, . . . . .	160.00		
Sundries, . . . . .	309.59		
			540,606.34
Admission Examinations.			
Salary, . . . . .	\$2,000.00		
Services and wages, . . . . .	1,158.07		
Other expenses, . . . . .	2,883.59		
			6,541.66
Payments made from College Income for the following accounts :			
Jefferson Physical Laboratory, Schedule 8,	\$600.00		
Museum of Comparative Zoology, Schedule 27,	4,075.00		
Peabody Museum of American Archaeology and Ethnology, Schedule 28, . . . . .	472.84		
William Hayes Fogg Art Museum, Schedule 31, . . . . .	4,180.05		
Phillips Brooks House, Schedule 33, .	1,746.86		
Gymnasium, Schedule 34, . . . . .	6,088.68		
Stillman Infirmary, Schedule 35, . . . . .	5,086.00		
			22,194.43
Amount carried forward, . . . . .			\$976,353.50

## COLLEGE (CONTINUED)

## EXPENDITURE

Amount brought forward, . . . . .			\$976,353.50
<b>University charge.</b>			
President's Office, salaries and expenses, . . . .	\$6,363.10		
Treasurer's Office, care of investments, . . . .	5,682.88		
<b>Bursar's Office :</b>			
Collections and payments, . . . . \$16,539.90			
Letting College rooms, . . . . . 800.00		17,389.90	
Medical Adviser, salary and expenses, . . . . .	3,588.08		
Regent's Office, salary and expenses, . . . . .	18.19		
Inspector of Grounds and Buildings, salary and expenses, . . . . .	3,400.77		
Publication Office, salary and expenses, . . . . .	1,709.09		
Annual Catalogue, . . . . .	2,276.07		
90 % Memorial Hall and Sanders Theatre expenses for the building, . . . . .	805.51		
Watchmen, . . . . .	2,463.70		
Engineer, . . . . .	1,508.86		
Janitor, . . . . .	2,748.11		
Purchasing Agent, . . . . .	387.94	48,232.30	
			<b>\$1,024,585.70</b>
<b>Balance constituted as follows :</b>			
<b>Balances of restricted income</b>			
Added to Funds and Gifts, . . . . .	\$148,371.28		
Carried to General Suspense, . . . . .	1,143.28		
Applied to pay balances previously charged to General Suspense, . . . . .	976.27		
		\$150,490.83	
<b>Less Deficiency of restricted income met by</b>			
Charges against Funds and Gifts, \$31,712.81			
Advances charged to General Suspense, . . . . .	2,515.16		
Previous balances credited to General Suspense, . . . .	105.09		
Deficiency of general income carried to Schedule 10, . . . . .	35,587.17	59,920.23	90,570.60
			<b>\$1,115,156.30</b>

LIBRARY

INCOME AND EXPENDITURE

For the year ended June 30, 1918

INCOME

Income of Book Funds and Gifts and Receipts for the purchase of books.

Francis Boott (part), . . . . .	\$393.84
Nathaniel I. Bowditch, . . . . .	118.60
Bright Legacy ( $\frac{1}{2}$ income), . . . . .	1,287.50
William B. Castle, . . . . .	107.16
Francis James Child Memorial, . . . . .	1,518.74
Fund of the Class of 1851, . . . . .	105.63
Book Fund of the Class of 1881, . . . . .	192.25
Edwin Conant ( $\frac{1}{4}$ income), . . . . .	360.83
Constantius ( $\frac{1}{4}$ income), . . . . .	688.60
Archibald C. Coolidge and Clarence L. Hay	272.02
S. Newton Cutler, . . . . .	52.02
W. Bayard Cutting Bequest, . . . . .	653.95
Horace Davis Bequest, . . . . .	452.94
Peter P. F. Degrand Bequest, . . . . .	4,408.68
Denny, . . . . .	286.65
Eliza Farrar, . . . . .	289.48
John Hays Gardiner Memorial, . . . . .	115.57
Department of German, . . . . .	153.62
Price Greenleaf (part), . . . . .	1,000.00
Charles Gross Memorial, . . . . .	88.27
George S. and Ellen S. Hale, . . . . .	337.94
Edward H. Hall, . . . . .	545.95
Frederic Hilborn Hall Memorial, . . . . .	267.08
Horace A. Haven, . . . . .	165.11
Francis B. Hayes, . . . . .	532.56
George Hayward, . . . . .	292.16
Thomas Hollis, . . . . .	125.92
Sidney Homer, . . . . .	112.89
Jarvis, . . . . .	26.01
Horatio King (part), . . . . .	115.10
Kittredge Anniversary Fund, . . . . .	222.63
Frederick A. Lane, . . . . .	278.20
George C. Lodge and Joseph Trumbull	
Stickney Memorial, . . . . .	180.25
Lowell, . . . . .	1,644.65
Francis Cabot Lowell, . . . . .	552.65
James Jackson Lowell, . . . . .	1,049.67
Charles Minot, . . . . .	3,228.33

Amount carried forward, . . . . . \$22,218.45

## LIBRARY (CONTINUED)

## INCOME

Amount brought forward, . . . . .	\$22,218.45	
Income of Book Funds and Gifts and Receipts for the purchase of books ( <i>continued</i> ).		
Charles Eliot Norton, . . . . .	495.07	
Lucy Osgood, . . . . .	386.46	
Mary Osgood, . . . . .	378.63	
Francis Parkman Memorial, . . . . .	281.99	
George F. Parkman, . . . . .	1,300.84	
B. Osgood Peirce, . . . . .	58.46	
James Mills Peirce Bequest, . . . . .	30.59	
Charles Elliott Perkins Memorial (gift), . . .	1,000.00	
Professorship of Latin-American History and Economics (part), . . . . .	1,929.00	
Hugo Reisinger Bequest, . . . . .	184.41	
Francis Sales, . . . . .	201.73	
Salisbury, . . . . .	303.08	
Sever, . . . . .	1,082.74	
Samuel Shapleigh, . . . . .	209.81	
George B. Sohler (part), . . . . .	123.37	
Clement Lawrence Smith, . . . . .	54.38	
Strobel Memorial (Class of 1877), . . . . .	167.07	
Strobel Memorial (Siam), . . . . .	112.84	
Subscription, . . . . .	553.78	
Charles Sumner, . . . . .	2,088.32	
Kenneth Matheson Taylor, . . . . .	272.02	
Elizabeth Torrey, . . . . .	68.19	
Daniel Treadwell ( $\frac{1}{4}$ income), . . . . .	312.14	
John Harvey Treat Book Fund, . . . . .	2,691.52	
Ishabod Tucker, . . . . .	229.55	
20th Mass. Regiment of Volunteer Infantry, . . .	48.98	
Wales Income for Books, . . . . .	300.00	
James Walker, . . . . .	350.83	
Thomas W. Ward, . . . . .	285.46	
Julian Palmer Welsh Memorial, . . . . .	159.08	
J. Huntington Wolcott, . . . . .	1,083.40	
Chauncey Wright, . . . . .	64.12	\$39,421.31
Gifts for books:		
Gifts, . . . . .	\$3,852.19	
Interest, . . . . .	213.44	\$4,065.63
Sale of duplicate books, . . . . .	1,828.47	
Received for books lost, . . . . .	189.07	
Received for fines, . . . . .	476.30	6,509.47
Gifts for Special Purposes.		
Gifts for new equipment, interest, . . . . .	\$47.02	
Gift for certain expenses, . . . . .	2,500.00	2,547.02
Amount carried forward, . . . . .		\$48,477.80

## LIBRARY (CONTINUED)

## INCOME

Amount brought forward, . . . . . \$48,477.80

## Income of Funds for Special Purposes.

Henry Weston Farnsworth Memorial, expenses of Farnsworth room, . . . . .	\$1,554.58	
R. M. Hodges Fund (part), for publishing Bibliographical Contributions, . . . . .	518.10	
Robert Gould Shaw Fund, maintenance of theatre collection, . . . . .	2,613.16	4,685.84

## Income of Funds for general purposes.

Anonymous Fund for Library, . . . . .	\$800.00	
Daniel Austin, . . . . .	402.06	
Edwin Conant ( $\frac{1}{4}$ income), . . . . .	1,082.51	
Constantius ( $\frac{1}{4}$ income), . . . . .	688.61	
Price Greenleaf (part), . . . . .	16,512.25	
Henry L. Pierce, . . . . .	2,575.00	
Henry L. Pierce, Residuary (part), . . . . .	2,869.02	
Stephen Salisbury Bequest, . . . . .	263.68	
James Savage (part), . . . . .	1,897.25	
Amey Richmond Sheldon, . . . . .	15,654.56	
Daniel Treadwell ( $\frac{1}{4}$ income), . . . . .	312.14	
Eben Wright, . . . . .	5,150.00	47,207.08

Fees for use of Library, . . . . .	\$355.00	
Sales of Bibliographical Contributions, . . . . .	.77	
Sales of other publications, . . . . .	15.30	
Sales of printed cards, . . . . .	1,107.37	
Contribution Radcliffe College toward expenses, . . . . .	1,000.00	
Sale of photographs, . . . . .	122.90	2,501.34
		<u>\$102,872.06</u>

## Balance constituted as follows:

Deficiency of restricted income met by	
Charges against Funds and Gifts, . . . . .	\$6,767.87
Advances charged to General Suspense, . . . . .	5,595.56
Deficiency of general income carried to Schedule 10, . . . . .	47,291.86
	<u>\$59,655.29</u>

## Less Balance of restricted income

Added to Funds and Gifts, . . . . .	\$16,088.82	
Applied to pay advances previously charged to General Suspense, . . . . .	4.82	16,088.64
		<u>48,566.65</u>
		<u><u>\$146,438.71</u></u>

## LIBRARY (CONTINUED)

## EXPENDITURE

For Books, from the following Funds, Gifts, etc.

<b>Francois Boott,</b> . . . . .	<b>\$629.60</b>
<b>Bowditch,</b> . . . . .	<b>53.55</b>
<b>Bright,</b> . . . . .	<b>1,254.19</b>
<b>Castle,</b> . . . . .	<b>238.51</b>
<b>Francis James Child Memorial,</b> . . . . .	<b>1,627.08</b>
<b>Fund of the Class of 1851,</b> . . . . .	<b>34.09</b>
<b>Book Fund of the Class of 1881,</b> . . . . .	<b>186.36</b>
<b>Edwin Conant,</b> . . . . .	<b>204.04</b>
<b>Constantius,</b> . . . . .	<b>520.50</b>
<b>A. C. Coolidge and C. L. Hay,</b> . . . . .	<b>27.13</b>
<b>S. Newton Cutler,</b> . . . . .	<b>13.92</b>
<b>W. Bayard Cutting Bequest,</b> . . . . .	<b>751.06</b>
<b>Horace Davis Bequest,</b> . . . . .	<b>315.09</b>
<b>Peter P. F. Degrand Bequest,</b> . . . . .	<b>895.76</b>
<b>Denny,</b> . . . . .	<b>293.20</b>
<b>Farrar,</b> . . . . .	<b>36.22</b>
<b>John Hays Gardiner Memorial,</b> . . . . .	<b>77.61</b>
<b>Department of German,</b> . . . . .	<b>8.25</b>
<b>Price Greenleaf (part),</b> . . . . .	<b>839.49</b>
<b>Charles Gross Memorial,</b> . . . . .	<b>32.23</b>
<b>George S. and Ellen S. Hale,</b> . . . . .	<b>319.16</b>
<b>Edward H. Hall,</b> . . . . .	<b>277.13</b>
<b>Frederic Hilborn Hall Memorial,</b> . . . . .	<b>70.22</b>
<b>Haven,</b> . . . . .	<b>44.78</b>
<b>Hayes,</b> . . . . .	<b>778.33</b>
<b>Hayward,</b> . . . . .	<b>72.18</b>
<b>Hollis,</b> . . . . .	<b>88.91</b>
<b>Homer,</b> . . . . .	<b>52.98</b>
<b>Jarvis,</b> . . . . .	<b>21.41</b>
<b>Horatio King,</b> . . . . .	<b>107.50</b>
<b>Kittredge Anniversary,</b> . . . . .	<b>234.07</b>
<b>Lane,</b> . . . . .	<b>175.67</b>
<b>Latin-American Professorship,</b> . . . . .	<b>1,929.00</b>
<b>G. C. Lodge and J. T. Stickney Memorial,</b> . . . . .	<b>139.76</b>
<b>Lowell,</b> . . . . .	<b>409.18</b>
<b>Francis Cabot Lowell,</b> . . . . .	<b>104.00</b>
<b>James Jackson Lowell,</b> . . . . .	<b>506.40</b>
<b>Minot,</b> . . . . .	<b>2,957.16</b>
<b>Charles Eliot Norton,</b> . . . . .	<b>666.32</b>
<b>Lucy Osgood,</b> . . . . .	<b>282.73</b>
<b>Mary Osgood,</b> . . . . .	<b>65.93</b>
<b>Francis Parkman Memorial,</b> . . . . .	<b>231.59</b>
<b>George F. Parkman,</b> . . . . .	<b>1,431.85</b>
<b>B. Osgood Peirce,</b> . . . . .	<b>3.50</b>

Amount carried forward, . . . . . **\$18,952.64**

## LIBRARY (CONTINUED)

## EXPENDITURE

Amount brought forward, . . . . . \$18,952.64

For Books, from the following Funds, Gifts, etc.

(continued).

James Mills Peirce Bequest, . . . . .	56.00	
Charles Elliott Perkins Memorial, . . . . .	425.75	
Hugo Reisinger Bequest, . . . . .	6.98	
Sales, . . . . .	182.53	
Salisbury, . . . . .	3.33	
Sever, . . . . .	616.32	
Shapleigh, . . . . .	310.39	
Clement Lawrence Smith, . . . . .	3.88	
George B. Schier (part), . . . . .	114.69	
Strobel Memorial (1877), . . . . .	70.04	
"    "    (Siam), . . . . .	23.79	
Subscription, . . . . .	475.76	
Sumner, . . . . .	1,228.80	
Kenneth Matheson Taylor, . . . . .	189.63	
Elizabeth Torrey, . . . . .	60.07	
Daniel Treadwell, . . . . .	166.02	
John Harvey Treat, . . . . .	2,191.40	
Tucker, . . . . .	136.51	
Wales, . . . . .	799.44	
Walker, . . . . .	643.14	
Ward, . . . . .	483.58	
Julian Palmer Welsh Memorial, . . . . .	224.27	
Evert Jansen Wendell, . . . . .	5,595.56	
J. Huntington Wolcott, . . . . .	1,109.06	
From Sundry gifts for books, . . . . .	4,718.09	
Duplicate money and receipts for lost books, . . . . .	1,148.48	
Fines, . . . . .	612.89	\$40,549.04
From Henry Weston Farnsworth Memorial, expenses of Farnsworth Room, . . . . .	\$957.50	
R. M. Hodges Fund, publishing Bibliographical Contributions, . . . . .	2,112.75	
Robert Gould Shaw Fund, maintenance of theatre collection, . . . . .	2,500.00	5,570.25
From Gift for new equipment, . . . . .	\$1,895.96	
"    "    services, . . . . .	482.25	
"    "    certain expenses, . . . . .	1,548.78	3,926.99
General.		
Salaries, . . . . .		18,633.34
Services and wages (part), . . . . .	\$36,416.75	
Equipment and supplies, . . . . .	1,788.48	
Stationery, postage, telephone and telegraph, . . . . .	1,641.81	
Amounts carried forward, . . . . .	\$39,846.54	\$68,679.62

## LIBRARY (CONTINUED)

## EXPENDITURE

Amounts brought forward, . . . . .		\$39,846.54	\$68,679.62
<b>General (continued).</b>			
Binding, . . . . .	4,550.98		
General printing, . . . . .	552.84		
Printed cards, . . . . .	2,054.20		
Freight, express, etc., . . . . .	290.74		
Laundry, . . . . .	86.00		
Sundries, . . . . .	72.51		47,458.76
<b>Building expenses, Widener Library:</b>			
Repairs, . . . . .	\$479.42		
Caretaking, . . . . .	11,814.87		
Water, heat, light, power, etc., . . . . .	14,258.57		
Repairs to heating equipment, . . . . .	115.17		26,668.03
<b>University charge:</b>			
Treasurer's Office, care of investments, . . . . .	\$855.36		
Bursar's Office, collections and payments, . . . . .	964.74		
Inspector of Grounds and Buildings, salary and expenses, . . . . .	786.67		
Watchmen, . . . . .	598.08		
Engineer, . . . . .	282.51		
Purchasing Agent, . . . . .	249.94		3,627.30
			<u>\$146,438.71</u>

# SCHEDULE 10

## UNIVERSITY, COLLEGE, AND LIBRARY COMBINED ACCOUNTS

For the year ended June 30, 1918

Deficit in College, Schedule 8, . . . . .	\$35,587.17	
Deficit in Library, Schedule 9, . . . . .	47,291.86	
	<u>\$82,879.03</u>	
Surplus in University, Schedule 7, . . . . .	49,602.70	
Deficit met by the unrestricted principal of the following funds:		
Henry T. Morgan Fund, . . . . .	\$16,688.16	
Henry L. Pierce (Residuary) Fund, . . . . .	16,688.17	<u>\$33,276.33</u>

# SCHEDULE 11

## SUMMER SCHOOLS FACULTY OF ARTS AND SCIENCES

### INCOME AND EXPENDITURE

For the year ended June 30, 1918

#### INCOME

##### School of 1917.

Interest on balance, . . . . .	\$222.79	
Receipts from students:		
Tuition fees.		
General, . . . . .	\$13,988.20	
Physical Education, . . . . .	6,860.00	\$20,848.20
Registration fees, . . . . .	2,284.00	
Auditors fees, . . . . .	1,140.00	
Use of rooms by guests, . . . . .	42.00	24,264.20
Sale of publication, Case Studies Abnormal Type, . . . . .	2.76	\$24,489.75

##### School of 1918.

Income of Sayles Fund, Summer Course in Geology, . . . . .	\$542.50	
Gift for salary, . . . . .	250.00	792.50
		<u>\$25,282.25</u>

##### Balance constituted as follows:

Deficiency of general income met by		
Previous balances credited to General		
Suspense, . . . . .	\$4,455.86	
Advances charged to General Suspense, . . . . .	611.02	\$5,066.88
Less Balance of restricted income added to		
Funds and Gifts, . . . . .	792.50	4,274.38
		<u>\$29,556.63</u>

## SUMMER SCHOOLS (CONTINUED)

## EXPENDITURE

## School of 1917.

## Dean's Office :

Salary of Dean, . . . . .	\$600.00	
Services and wages, . . . . .	258.34	
Office supplies, . . . . .	81.13	\$934.47

Salaries for Instruction, . . . . .	17,685.84	
General Expenses, . . . . .	557.11	
Public Exercises, . . . . .	411.43	
Historical Excursions, . . . . .	206.94	
Hospitality, . . . . .	104.63	
Scholarships, . . . . .	30.00	
Advertising, . . . . .	181.80	

## University charge :

Bursar's Office, collections and pay- ments, . . . . .	\$80.41	
Publication Office, Expenses, . . .	589.88	
Inspectors Office Expenses, . . . .	7.08	
	<u>\$676.82</u>	

Less amount transferred to Schedule 8, . . . . .	.41	676.41	\$30,788.13
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## School of Physical Education.

General, . . . . .			5,505.80
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## School of 1918.

## Dean's Office :

Services and wages, . . . . .	\$904.35	
Office supplies, . . . . .	850.66	\$1,755.01

General Expenses, . . . . .	59.08	
Advertising, . . . . .	1,008.50	
Public Exercises, . . . . .	6.88	2,824.43
School of Physical Training, . . . . .		488.38

\$29,556.63

SCHEDULE 12

## SCHOOLS OF ARCHITECTURE AND LANDSCAPE ARCHITECTURE

### INCOME AND EXPENDITURE

For the year ended June 30, 1918

#### INCOME

**Income of Funds and Gifts.**

**Departments of Architecture and Landscape**

Architecture Additions Fund, . . . . .	\$11,749.52	
Nelson Robinson, Jr. (part), . . . . .	28,870.00	
Revere Family Memorial, . . . . .	1,068.68	
Arthur Rotch, . . . . .	1,287.50	
Gurdon Saltonstall, . . . . .	8,090.00	
Josiah Stickney, . . . . .	607.29	\$46,672.99

**Income of Fellowship Funds.**

Julia Amory Appleton, . . . . .	\$1,262.68	
Charles Eliot, . . . . .	1,462.29	
Nelson Robinson, Jr. (part), . . . . .	1,000.00	3,724.97

**Income of Scholarship Funds.**

Edward Austin (part), . . . . .	\$750.00	
Bright (part), . . . . .	83.38	
Francis H. Cummings, . . . . .	357.15	
Eveleth (part), . . . . .	66.66	1,257.14

**Receipts from students.**

Tuition fees. Architecture, . . . . .	\$2,051.00	
Landscape Architecture, . . . . .	654.00	\$2,705.00
Graduation fees, . . . . .	20.00	
Auditors fees, . . . . .	20.00	2,745.00

**Miscellaneous.**

Sales of Architectural Quarterly, . . . . .	\$4.50	
Graduate School of Business Administration, books, . . . . .	67.38	71.88
		<u>\$54.471.93</u>

#### EXPENDITURE

**From Fellowship Funds.**

Julia Amory Appleton, . . . . .	\$250.00
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**From Scholarship Funds.**

Edward Austin Scholarships in Architecture, . . . . .	\$750.00	
Bright, . . . . .	83.38	
Eveleth, . . . . .	66.66	899.99

Amount carried forward, . . . . .	\$1,149.99
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# SCHOOLS OF ARCHITECTURE AND LANDSCAPE ARCHITECTURE (CONTINUED)

## EXPENDITURE

Amount brought forward, . . . . .		\$1,149.99
For Scholarships from general funds.		
Architectural League, . . . . .	\$400.00	
University, . . . . .	600.00	1,000.00
From Sundry Funds for Special Purposes.		
Departments of Architecture and Landscape Archi- tecture Additions Fund, . . . . .	\$845.21	
Revere Family Memorial, . . . . .	729.44	
Nelson Robinson, Jr.:		
Expenses of Nelson Robinson, Jr., Hall, . . . . .	6,675.52	8,250.17
From Appropriations.		
Architecture, . . . . .	\$783.22	
Landscape Architecture, . . . . .	2,065.59	2,848.81
General.		
Salaries, . . . . .	\$23,946.24	
Stationery and postage, . . . . .	80.77	
Printing, . . . . .	285.15	
Services and wages, . . . . .	518.80	
Sundries, . . . . .	9.06	24,840.02
University charge.		
President's Office, salaries and expenses, . . . . .	\$78.91	
Treasurer's Office, care of investments, . . . . .	598.41	
Bursar's Office, collections and payments, . . . . .	256.38	
Medical Adviser, salary and expenses, . . . . .	44.50	
Regent's Office, . . . . .	.16	
Annual Catalogue, . . . . .	94.84	
Purchasing Agent, . . . . .	52.92	
Inspector of Grounds and Buildings, . . . . .	.38	
Watchmen, . . . . .	.22	1,136.67
Phillips Brooks House, Schedule 33, . . . . .	\$21.67	
Gymnasium, Schedule 34, . . . . .	75.44	
Stillman Infirmary, Schedule 35, . . . . .	44.00	141.11
		<u>\$39,856.77</u>
Balance constituted as follows:		
Balance of restricted income added to Funds and Gifts, \$20,075.67		
Less		
Deficit met by income from the Gordon McKay		
Endowment, . . . . .	4,960.51	15,115.16
		<u><u>\$54,471.93</u></u>

SCHEDULE 13

SCHOOLS OF ENGINEERING AND MINING

INCOME AND EXPENDITURE

For the year ended June 30, 1918

INCOME

Income of Funds for Salaries and General Purposes.

Abbott Lawrence (part), . . . . .	\$1,584.55	
James Lawrence (part), . . . . .	1,297.15	
Gordon McKay Endowment (part), . . . . .	45,757.00	
Professorship of Engineering, . . . . .	2,101.51	
Edward Whitney, . . . . .	625.81	\$51,365.52

Income of Scholarship and Beneficiary Funds and Gifts.

Joseph Eveleth (part), . . . . .	\$100.00	
Hennen Jennings (part), . . . . .	663.42	
Henry Weidemann Locke (interest), . . . . .	10.30	
Lawrence Scientific School Loans Returned Fund:		
Interest, . . . . .	\$463.71	
Loans returned, . . . . .	330.46	794.17
Susan B. Lyman Loan Fund, . . . . .	128.55	1,696.44

Gifts for Special Purposes.

Edward B. Dane gift, research in Sanitary Engineering, interest, . . . . .	\$23.86	
Gift for Summer Mining Camp, interest, . . . . .	42.85	66.71

Receipts from students.

Tuition fees:

For 1916-17, Joint school Harvard-Mass. Institute of Technology, . . . . .	\$12,646.22
For 1917-18, Harvard Mining School, . . . . .	250.00
	\$12,896.22

Miscellaneous receipts,

Allowance from maker of unsatisfactory instruments, . . . . .	175.00	13,071.22
		\$66,199.89

Balance constituted as follows:

Deficiency of restricted income met by charges against Funds and Gifts, . . . . .	\$334.56
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Deficiency of general income met by the unrestricted principal of the following funds:

Henry T. Morgan Fund, . . . . .	\$26,507.97
Henry L. Pierce (Residuary) Fund, . . . . .	26,507.97
	53,015.94
	\$53,850.50

*Less*

Balance of restricted income added to Funds and Gifts, . . . . .	1,047.03	52,803.47
		\$118,508.86

## SCHOOLS OF ENGINEERING AND MINING (CONTINUED)

## EXPENDITURE

## From Scholarships and Beneficiary Funds.

Eveleth Scholarship, . . . . .	\$100.00	
Lawrence Scientific School Loans Returned Fund, . . . . .	463.71	
Susan B. Lyman Loan Fund, . . . . .	386.29	\$950.00

## From Sundry Funds for Special Purposes.

Gift of Ernest B. Dane, Research in Sanitary Engineering, . . . . .		100.68
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## General.

Teaching salaries, . . . . .	\$82,957.01	
Share of expenses, joint school Harvard-Massachusetts Institute of Technology, . . . . .	30,339.55	
Diplomas, . . . . .	124.60	
Publicity work, . . . . .	150.00	
Insurance, . . . . .	86.00	
Moving Engineering Library from Pierce to Widener, . . . . .	700.00	
Equipment and supplies, . . . . .	101.50	
Stationery, postage, telephone and telegraph, . . . . .	36.87	
Services and wages, . . . . .	35.00	
Express, . . . . .	1.00	114,581.53

## University Charge.

President's Office, salaries and expenses, . . . . .	\$1,868.53	
Treasurer's Office, salaries and expenses, . . . . .	733.82	
Bursar's Office, salaries and expenses, . . . . .	67.21	
Inspector's Office, salaries and expenses, . . . . .	9.12	
Annual Catalogue, . . . . .	237.09	
Watchmen, . . . . .	5.38	2,921.15
		<u>\$118,503.36</u>

**SCHEDULE 14**

**GRADUATE SCHOOL OF BUSINESS ADMINISTRATION**

**INCOME AND EXPENDITURE**

For the year ended June 30, 1918

**INCOME**

**Income of Funds.**

Business School balance, interest, . . . . .	\$205.76		
<b>Edmund Cogswell Converse Professorship in</b>			
Banking, . . . . .	6,917.68		
Endowment Fund, . . . . .	3,349.25		
<b>James J. Hill Fund, . . . . .</b>	6,437.50		
<b>James J. Hill Professorship of Transportation, . . . . .</b>	6,532.26		
<b>Gordon McKay Endowment (part), . . . . .</b>	3,000.00		
<b>Isador Straus Memorial, . . . . .</b>	516.65		
Student Loan Fund.			
Loans repaid, . . . . .	\$1,257.93		
Interest, . . . . .	28.83		
Gifts, . . . . .	150.00	1,436.76	
<b>Bureau of Business Research Publication Fund.</b>			
Sale of publications, . . . . .	\$1,286.17		
Interest, . . . . .	12.26	1,298.43	\$29,694.29

**Gifts for immediate use :**

For deficit. Gifts, . . . . .	\$14,475.00		
Gifts for Outside Lectures Fund, . . . . .	100.00		
For courses in printing, . . . . .	100.00		
For books on transportation, . . . . .	200.00		
<b>Paul E. Fitzpatrick, books, . . . . .</b>	150.00		
<b>George O. May, for prizes, . . . . .</b>	150.00		
<b>Frederick L. and John C. Olmstead, books, . . . . .</b>	100.00		
<b>Joseph E. Sterrett, books, . . . . .</b>	100.00	15,375.00	

**Receipts from students.**

Tuition fees, Regular students, . . . . .	\$14,200.00		
Summer courses, . . . . .	610.00	\$14,810.00	
Graduation fees, . . . . .		20.00	
Rental of stop watches, . . . . .		7.00	14,837.00

**Miscellaneous.**

Harvard College, allowance for salary of instructor in 1916-17, . . . . .	\$1,000.00		
University Printing Office, share of salary of in- structor in printing, . . . . .	147.95		
Sale of pamphlets, . . . . .	1.28	1,149.23	
		<u>\$61,055.52</u>	

## GRADUATE SCHOOL OF BUSINESS (CONTINUED)

## EXPENDITURE

## Instruction.

Salaries of instructing staff, . . . . .	\$38,959.64	
Compensation for outside lecturers, . . . . .	3,437.50	
Hospitality and travelling expenses of lecturers, . .	118.45	
Services of assistants in courses, . . . . .	555.50	\$38,071.09

## Accessories of instruction.

## Books and periodicals :

From general funds, . . . . .	\$997.48	
From special funds, . . . . .	528.80	\$1,521.08
Binding books and periodicals, . . . . .	649.85	
Reading room salaries, . . . . .	2,728.75	
Reading room supplies and expenses, . . . . .	372.73	
Equipment and supplies, . . . . .	426.95	
Stenographic wages, . . . . .	863.15	
Stationery, postage, telephone and express, . . . .	211.50	
Equipping and remodelling conference and class rooms, . . . . .	92.79	
Printing for courses, . . . . .	346.79	
Proctors, . . . . .	184.52	
Diplomas, . . . . .	.50	
Expenses Summer courses in Stores keeping and Cost accounting, . . . . .	952.93	8,351.49

## Investigations.

## Bureau of Business Research :

From general funds, . . . . .	\$6,211.09	
From special funds, . . . . .	841.00	\$7,052.09
Travelling expenses for instructors research :		
From general funds, . . . . .	\$170.19	
From special funds, . . . . .	67.25	237.44
		7,289.53

## Awards to Students.

Loans to students, . . . . .	\$1,417.94	
Prizes, . . . . .	150.00	1,567.94

## Administration.

Salaries for administration, . . . . .	\$1,500.13	
Travelling expenses for administration, . . . . .	86.62	
Supplies, . . . . .	50.12	
Printing, . . . . .	353.83	
Telegraph and telephone, . . . . .	211.21	
Postage and express, including publicity, . . . . .	211.07	
Sundries, . . . . .	1.99	2,414.97

## University charge :

President's Office, salaries and expenses, . . . . .	\$298.54	
Treasurer's Office, care of investments, . . . . .	268.98	
Amounts carried forward, . . . . .	\$562.52	\$57,695.02

## GRADUATE SCHOOL OF BUSINESS (CONTINUED)

## EXPENDITURE

Amounts brought forward, . . . . .	\$562.52	\$57,695.02
University charge ( <i>continued</i> ).		
Bursar's Office, collections and payments, . . . . .	730.99	
Inspector's Office, salary and expenses, . . . . .	20.23	
Medical Adviser, salary and expenses, . . . . .	165.52	
Regent's Office, . . . . .	.61	
Watchmen, . . . . .	.84	
Publication Office, salary and expenses, . . . . .	265.19	
Annual Catalogue, . . . . .	94.84	
Purchasing Agent, . . . . .	50.04	1,890.78
Phillips Brooks House, Schedule 33, . . . . .	\$80.59	
Gymnasium, Schedule 34, . . . . .	280.64	
Stillman Infirmary, Schedule 35, . . . . .	288.00	649.23
		<hr/>
Balance constituted as follows:		\$60,235.03
Balance of restricted income added to Funds and		
Gifts, . . . . .	\$3,107.82	
<i>Less</i>		
Deficiency of restricted income met by		
charges against Funds and Gifts, . . . \$1,705.83		
Deficiency of general income met by previous		
balances credited to General Suspense, 581.50	2,287.33	820.49
		<hr/>
		\$61,055.52
		<hr/>

## SCHEDULE 15

## DIVINITY SCHOOL

## INCOME AND EXPENDITURE

For the year ended June 30, 1918

## INCOME

## Income of Funds for Instruction or for General Purposes.

Divinity School balance, interest, . . . . .	\$170.25
Endowment, . . . . .	8,691.36
Oliver Ames, . . . . .	875.50
Hannah C. Andrews, . . . . .	27.04
Daniel Austin, . . . . .	57.42
Edward Austin (part), . . . . .	500.00
Adams Ayer, . . . . .	51.50
Joseph Baker, . . . . .	786.66
Bussey Professorship, . . . . .	1,985.58
Bussey Trust (part), . . . . .	5,148.93

Amount carried forward, . . . . . \$13,244.24

## DIVINITY SCHOOL (CONTINUED)

## INCOME

Amount brought forward, . . . . . \$18,244.24

## Income of Funds for Instruction or for General Purposes

*(continued).*

Walter Channing Cabot, . . . . .	2,000.00	
Joshua Clapp, . . . . .	112.16	
Edwin Conant, . . . . .	257.50	
Dexter Lectureship, . . . . .	1,315.52	
Frothingham Professorship, . . . . .	3,023.20	
Abraham W. Fuller, . . . . .	54.08	
Lewis Gould, . . . . .	46.92	
John Hancock Professorship, . . . . .	\$309.41	
Charles L. Hancock (part), . . . . .	3,190.59	3,500.00
Haven, . . . . .	257.50	
Samuel Hoar, . . . . .	54.07	
Hollis Professorship of Divinity, . . . . .	1,777.68	
Henry P. Kidder, . . . . .	515.00	
Henry Lienow, . . . . .	473.08	
Caroline Merriam, . . . . .	54.07	
John Newgate, . . . . .	17.15	
Parkman Professorship, . . . . .	824.82	
Francis Greenwood Peabody Professorship, . . . . .	1,306.61	
Plummer Foundation, . . . . .	1,354.24	
John W. Quinby, . . . . .	34.92	
Abby Crocker Richmond, . . . . .	51.50	
John L. Russell, . . . . .	51.50	
William B. Spooner, . . . . .	515.00	
Thomas Tileston of New York Endowment, . . . . .	2,060.00	
Mary P. Townsend, . . . . .	270.38	
Winthrop Ward, . . . . .	108.15	
Winn Professorship, . . . . .	3,185.07	
Augustus Woodbury Bequest, . . . . .	58.46	
Gift for salary, . . . . .	1,000.00	\$37,517.77
Income of Scholarship and Beneficiary Funds, . . . . .		2,845.23
Income of Prize Funds, . . . . .		152.95
Income of Funds and Gifts for Special Purposes.		
Rushton Dashwood Burr, . . . . .	\$238.24	
Louisa J. Hall, . . . . .	317.65	555.89
Receipts from Students.		
Tuition fees, . . . . .	\$3,290.00	
Graduation fees, . . . . .	140.00	
Divinity Hall, rents, . . . . .	2,855.09	6,385.09
Amount carried forward, . . . . .		\$47,356.93

## DIVINITY SCHOOL (CONTINUED)

## INCOME

Amount brought forward, . . . . .			\$47,856.98
Balance constituted as follows:			
Deficiency of restricted income met by charges against Funds and Gifts, . . . . .		\$3,430.92	
Less,			
Balance of restricted income added to Funds and Gifts, . . . . .	\$1,080.64		
Surplus of general income carried to General Suspense for future use, . . . . .	558.75	1,639.39	1,791.58
			<u>\$49,148.46</u>

## EXPENDITURE

From Scholarship and Beneficiary Funds, . . . . .		\$2,483.61	
From Prize Funds, . . . . .		100.00	
From Funds and Gifts for Special Purposes.			
Rushton Dashwood Burr, . . . . .	\$215.29		
Louisa J. Hall, . . . . .	264.31		
John W. Quinby, . . . . .	18.53		498.13
General.			
Salaries, . . . . .	\$35,072.22		
Services and wages, . . . . .	822.51		
Equipment and supplies, . . . . .	14.59		
Stationery, postage, telephone and telegraph, . . . .	106.08		
Printing, . . . . .	313.19		
Advertising, . . . . .	65.30		
Faculty dinner, . . . . .	53.75		
Sundries, . . . . .	14.49		
Share Library expenses, Andover Theological Seminary.			
Salaries, . . . . .	\$3,082.50		
Services and wages, . . . . .	62.29		
Equipment and supplies, . . . . .	1.24		
Stationery and postage, . . . . .	76.79		
Books, . . . . .	144.12		
Binding, . . . . .	96.90		
Printed cards, . . . . .	50.00		
Heat, light and janitor service, . . . . .	848.69	3,857.53	39,819.66
Divinity Hall.			
Repairs and equipment, land and building, . . . . .	\$273.77		
Caretaking, land and building, . . . . .	3,652.27		3,926.04
Divinity Library.			
Repairs and equipment, land and building, . . . . .	\$29.32		
Caretaking, land and building, . . . . .	108.44		137.76
Amount carried forward, . . . . .			\$46,965.20

## DIVINITY SCHOOL (CONTINUED)

## EXPENDITURE

Amount brought forward, . . . . .		\$46,965.20
University charge.		
President's Office, salaries and expenses, . . . . .	\$186.22	
Treasurer's Office, care of investments, . . . . .	408.05	
Bursar's Office, collections and payments, . . . . .	233.80	
Medical Adviser, salary and expenses, . . . . .	105.01	
Regent's Office, . . . . .	.39	
Inspector of Grounds and Buildings, salary and expenses, . . . . .	118.09	
Publication Office, salary and expenses, . . . . .	29.47	
Annual Catalogue, . . . . .	189.68	
Watchmen, . . . . .	100.49	
Engineer, . . . . .	88.86	
Janitor, . . . . .	77.39	
Purchasing Agent, . . . . .	3.06	1,490.01
Semitic Museum, Schedule 29, . . . . .	\$464.09	
Phillips Brooks House, Schedule 33, . . . . .	51.12	
Gymnasium, Schedule 34, . . . . .	178.04	698.25
		<u>\$49,148.46</u>

**LAW SCHOOL**  
**INCOME AND EXPENDITURE**

For the year ended June 30, 1918

**INCOME**

**Income of Funds for Instruction and General Purposes.**

Law School balance, interest, . . . . .	\$3,841.90	
Law School Endowment, . . . . .	52.01	
Ames Fund, . . . . .	544.05	
Samuel Ames Bequest, . . . . .	103.00	
James and Augusta Barnard, . . . . .	5,208.37	
Bemis Professorship, . . . . .	5,646.82	
Bussey Professorship, . . . . .	1,298.57	
Bussey Trust (part), . . . . .	5,148.92	
Byrne Professorship of Administrative Law, . .	4,960.07	
James C. Carter Professorship, . . . . .	5,527.24	
Dane Professorship, . . . . .	852.89	
Royall Professorship, . . . . .	429.56	
Esra Ripley Thayer Teaching Fellowship, . .	1,344.77	
Weld Professorship, . . . . .	4,892.24	
Gift for Law School deficit, . . . . .	100.00	\$39,950.41

**Income of Book Funds and Gifts.**

<b>Gift of James Munson Barnard and Augusta</b>		
Barnard, interest, . . . . .	\$41.46	
John L. Cadwalader, . . . . .	1,080.00	
Law School Book, . . . . .	2,421.58	
Law School Library, . . . . .	5,150.00	
Gift for purchase of portraits, . . . . .	225.00	8,868.04

<b>Income of Scholarship, Beneficiary and Prize Funds and Gifts,</b>	<b>8,720.35</b>	
Tuition fees, . . . . .	39,730.00	
Sale of books, . . . . .	1,494.61	
Sale of Library Catalogue, . . . . .	36.44	
Sale of Case Books, . . . . .	590.88	
Sale of Quinquennial Catalogue, . . . . .	1.80	
Unclaimed locker deposits, . . . . .	128.20	
Fees for duplicate diplomas, . . . . .	10.00	
		<b>\$99,530.23</b>

**Balance constituted as follows:**

Deficiency of restricted income met by charges against Funds and Gifts, . . . . .	\$147.50	
Deficiency of general income met by previous balances credited to General Suspense, . . . .	31,585.10	
	<b>\$31,732.60</b>	

<b>Less</b> Balance of restricted income added to Funds and Gifts, . . . . .	9,453.77	22,278.83
		<b>\$121,809.06</b>

## LAW SCHOOL (CONTINUED)

## EXPENDITURE

From Scholarship, Beneficiary and Prize Funds and Gifts, . . . .	\$6,825.43	
Scholarships from unrestricted income, . . . . .	2,840.00	
Teaching Salaries, . . . . .	63,966.67	
Library.		
Salaries librarian and assistant librarian, . . . . .	\$5,900.00	
Services and wages, . . . . .	9,925.15	
From James Munson Barnard and Augusta		
Barnard Gift, books, . . . . .	66.79	
James and Augusta Barnard Fund, . .	5,208.37	
Gift for portraits, . . . . .	225.00	
Books from general funds, . . . . .	5,349.63	
Binding, . . . . .	2,406.36	
Insurance on books, . . . . .	126.83	
Equipment and supplies, . . . . .	843.15	
Stationery, postage and telephones, . . . . .	197.04	
Printed cards, . . . . .	24.41	
Freight and express, . . . . .	203.89	
Photographs and prints, . . . . .	39.00	
Sundries, . . . . .	39.09	30,064.71
Administration and General.		
Salary of Secretary, . . . . .	\$2,000.00	
Services and wages, . . . . .	840.00	
Equipment and supplies, . . . . .	184.63	
Stationery, postage, telephone and telegraph, . . .	421.69	
Printing, . . . . .	1,391.98	
Advertising, . . . . .	183.00	
Proctors and monitors, . . . . .	104.08	
Diplomas, . . . . .	202.55	
Income of the Ames Fund deposited with Dean, .	563.67	
Dues Association of American Law Schools, . . .	20.00	
Travelling expenses, . . . . .	201.84	
Sundries, . . . . .	10.05	6,123.69
Repairs and equipment, land and buildings, . . . . .	\$835.38	
Caretaking, land and buildings, . . . . .	5,920.68	6,756.06
University charge.		
President's Office, salaries and expenses, . . . . .	\$934.25	
Treasurer's Office, care of investments, . . . . .	509.97	
Bursar's Office, collections and payments, . . . .	1,415.68	
Medical Adviser, salary and expenses, . . . . .	526.82	
Regent's Office, . . . . .	1.94	
Inspector of Grounds and Buildings, salary and		
expenses, . . . . .	238.18	
Publication Office, salary and expenses, . . . . .	29.47	
Annual Catalogue, . . . . .	237.09	
Amounts carried forward, . . . . .	\$3,893.40	\$116,066.56

## LAW SCHOOL (CONTINUED)

## EXPENDITURE

Amounts brought forward, . . . . .	\$3,898.40	\$116,066.56
University charge ( <i>continued</i> ).		
Watchmen, . . . . .	322.86	
Janitor, . . . . .	204.29	
Engineer, . . . . .	124.08	
Purchasing Agent, . . . . .	48.69	4,592.83
Phillips Brooks House, Schedule 33, . . . . .	\$256.48	
Gymnasium, Schedule 34, . . . . .	893.20	1,149.68
		<u>\$121,809.06</u>

## SCHEDULE 17

## MEDICAL SCHOOL

## INCOME AND EXPENDITURE

For the year ended June 30, 1918

## INCOME

## Income of Funds for Instruction and General Purposes.

Anonymous Fund in the Department of Theory and Practice, . . . . .	\$583.75
Edward M. Barringer (part), . . . . .	1,059.02
Robert C. Billings, . . . . .	5,000.00
Brinckerhoff Fund, . . . . .	288.09
John B. and Buckminster Brown, . . . . .	3,426.30
Bullard Professorship of Neuropathology, . . . . .	4,454.75
Herbert L. Burrell Fund, . . . . .	804.16
Calvin and Lucy Ellis, . . . . .	22,127.86
George Fabyan Foundation (part), . . . . .	5,000.00
Charles F. Farrington (part), . . . . .	1,500.00
Samuel E. Fitz, . . . . .	94.55
George W. Gay Lecture Fund Medical Ethics, . . . . .	51.50
Rebecca A. Greene Bequest, . . . . .	2,888.73
Henry Harris ( $\frac{1}{2}$ income), . . . . .	770.93
Harvard Medical Alumni, . . . . .	480.03
Harvard Medical Alumni (gifts), . . . . .	2,166.68
Hersey Professorship ( $\frac{1}{2}$ income), . . . . .	416.47
George Higginson, . . . . .	5,667.21
John Homans Memorial, . . . . .	2,690.36
Silas Arnold Houghton Professorship, . . . . .	1,294.35
George S. Hyde, . . . . .	2,576.03
Jackson Professorship of Clinical Medicine, . . . . .	3,563.44
Henry Jackson Endowment (part), . . . . .	3,000.00

Amount carried forward, . . . . . \$69,308.71

## MEDICAL SCHOOL (CONTINUED)

## INCOME

Amount brought forward, . . . . .	\$69,303.71	
<b>Income of Funds for Instruction and General Purposes</b>		
<i>(continued).</i>		
Hamilton Kuhn Memorial, . . . . .	9,874.71	
Walter Augustus Lecompte Professorship (part), . . . . .	1,600.00	
William O. Moseley, . . . . .	2,790.94	
New subscription, . . . . .	2,000.78	
Lyman Nichols, . . . . .	516.03	
George F. Parkman, Medical Fund, . . . .	441.92	
Henry L. Pierce (Residuary), . . . . .	2,019.68	
John D. Rockefeller, . . . . .	51,500.00	
Dr. Ruppaner, . . . . .	480.80	
School of Comparative Medicine, . . . . .	401.29	
Henry Francis Sears Fund (part), . . . .	500.00	
George C. Shattuck, . . . . .	5,090.50	
James Skillen Memorial, . . . . .	582.52	
Francis Skinner, . . . . .	2,282.43	
James Stillman Professorship, . . . . .	6,148.03	
Mary W. Swett, . . . . .	811.90	
Samuel W. Swett, . . . . .	1,030.00	
Quincy Tufts, . . . . .	103.00	
Edward Wigglesworth Professorship (part), .	2,678.50	
Henry Willard Williams, . . . . .	3,016.80	
Morrill Wyman Medical Research (part), . .	6,824.39	
Gifts for salaries, . . . . .	3,687.50	\$173,684.93
Income of Fellowship Funds, . . . . .		12,422.57
Income of Funds and Gifts for Scholarships and Aids, . . . . .		9,781.84
Income of Prize Funds, . . . . .		394.27
<b>Income of Sundry Funds for Special Purposes.</b>		
Edward Austin (Bacteriological Laboratory), .	\$553.52	
J. Ingersoll Bowditch, . . . . .	517.47	
Boylston, for Medical Books, . . . . .	96.25	
Dr. John C. Cutter Bequest:		
Interest, . . . . .	\$386.37	
Royalties on publications, . . . .	40.58	426.95
Duplicate Book Fund. Interest, . . . .	\$23.48	
Sales, . . . . .	6.75	30.23
Thomas Dwight Memorial, . . . . .	670.53	
George Fabyan Foundation for Comparative Pathology (part), . . . . .	6,928.07	
George Fabyan Foundation, Special, . . . .	629.79	
Charles F. Farrington (part), . . . . .	1,172.39	
Amounts carried forward, . . . . .	\$11,025.20	\$196,283.61

## MEDICAL SCHOOL (CONTINUED)

## INCOME

Amounts brought forward, . . . . . \$11,025.30 \$196,288.61

## Income of Sundry Funds for Special Purposes

(continued).

<b>F. B. Greenough</b> (for surgical research), . . .	338.00		
<b>Henry Jackson Endowment</b> (part), . . . . .	2,359.76		
<b>Walter Augustus Lecompte Professorship of</b> Otology (part), . . . . .	1,233.27		
<b>Harriet Newell Lowell</b> , . . . . .	35.95		
<b>Medical Library</b> , . . . . .	133.85		
<b>Charles S. Minot Bequest</b> , . . . . .	114.29		
<b>E. D. Morgan Gift, Pathological Laboratory</b> , .	349.90		
<b>Repayments Anatomical Laboratory</b> , . . . . .	391.89		
" <b>Bacteriological Laboratory</b> , . . . . .	51.00		
" <b>Chemical Laboratory</b> , . . . . .	946.92		
" <b>Neuropathological Laboratory:</b> Interest, . . . . .	\$28.02		
Other receipts, . . . . .	700.00	728.02	
" <b>Pathological Laboratory</b> , . . . . .	10.00		
" <b>Comparative Pathological Laboratory</b> , .	782.50		
" <b>Pharmacological Laboratory</b> , . . . . .	79.08		
" <b>Physiological Laboratory</b> , . . . . .	345.70		
" <b>Department of Medicine Laboratory</b> , .	44.20		
" <b>Preventive Medicine and Hygiene Lab.</b>	83.00		
" <b>Surgical Laboratory</b> , . . . . .	48.44		
" <b>Syphilological Laboratory</b> , . . . . .	1,130.00		
<b>Proctor, for the study of Chronic Diseases</b> , . . .	2,622.28		
<b>Maurice H. Richardson Memorial</b> , . . . . .	163.51		
<b>Henry Francis Sears Fund for Pathology</b> (part),	1,317.28		
<b>Surgical Laboratory</b> , . . . . .	286.44		
<b>William H. Thorndike, Surgery</b> , . . . . .	312.03		
<b>Zoe D. Underhill Research</b> , . . . . .	515.00		
<b>Warren Fund for Anatomical Museum</b> , . . . . .	778.22		
<b>James C. White Bequest</b> , . . . . .	261.41		
<b>Edward Wigglesworth Professorship of Der-</b> <b>matology</b> (part), . . . . .	480.00		
<b>Morrill Wyman Medical Research</b> (part): Interest, . . . . .	\$240.00		
Other receipts, . . . . .	114.42	354.42	27,321.56

Income of Funds and Gifts for **Huntington**

Memorial Cancer Hospital.

<b>Memorial Cancer Hospital Endowment</b> , . . . . .	\$6,934.67		
<b>Francis Bartlett Free Bed</b> , . . . . .	257.50		
<b>T. Jefferson Coolidge for Cancer Research</b> , .	103.00		
<b>Caroline Brewer Croft</b> , . . . . .	4,739.29		
<b>William Endicott Fund</b> , . . . . .	1,287.50		
Amounts carried forward, . . . . .	\$13,321.96	\$228,605.17	

## MEDICAL SCHOOL (CONTINUED)

## INCOME

Amounts brought forward, . . . . .	\$18,821.96	\$228,605.17
<b>Income of Funds and Gifts for Huntington Memorial</b>		
Cancer Hospital ( <i>continued</i> ).		
Lawrence Carteret Fenno, . . . . .	1,080.00	
Lawrence Carteret Fenno Free Bed, . . . .	257.50	
Flattery Research Fund (part), . . . . .	458.70	
Franklin H. Hooper Free Bed, . . . . .	257.50	
Amos Lawrence Hopkins Free Bed, . . . .	257.50	
Maria D. Lockwood Memorial, . . . . .	2,612.54	
Julia M. Moseley Fund, . . . . .	875.00	
Clara Endicott Payson Free Bed, . . . .	257.50	
Memorial Cancer Hospital Proctor Maintenance,	376.77	
Emily J. Proctor Gift, . . . . .	128.75	
Gifts for current use, . . . . .	14,780.00	
Memorial Cancer Hospital Research Fund:		
Gifts, . . . . .	\$400.00	
Interest, . . . . .	442.86	842.86
Memorial Cancer Hospital New Laboratory Fund:		
Gifts, . . . . .	\$10,000.00	
Interest, . . . . .	789.94	10,789.94
Gifts for salaries, . . . . .	4,500.00	
“ social service worker's expenditure, . . .	100.00	
“ purchase of physical apparatus, . . . .	50.00	
“ services of technician, . . . . .	165.00	51,011.02
<b>Income of Gifts for Special Use.</b>		
Gifts, . . . . .	\$106,834.89	
Interest and other receipts, . . . . .	1,358.25	108,192.64
Sale of heat and power, . . . . .	\$69,654.72	
Less amount taken for income of funds invested in		
Power Plant, . . . . .	22,452.62	47,302.10
<b>Receipts from students.</b>		
Tuition Fees.		
Regular courses, . . . . .	\$87,046.00	
Dental students, . . . . .	6,200.00	
Division of Medical Sciences, . . . .	940.00	\$94,186.00
Matriculation fees, . . . . .	645.00	
Examination fees, . . . . .	21.00	
Microscope fees, . . . . .	1,855.25	
Laboratory fees and supplies.		
Anatomy, . . . . .	\$1,229.00	
Bacteriology, . . . . .	489.00	
Histology, . . . . .	408.00	2,126.00
<b>Miscellaneous receipts.</b>		
Peter Bent Brigham Hospital for library service,	\$800.00	
Miscellaneous receipts, . . . . .	177.59	977.59
		<u>\$529,821.77</u>

## MEDICAL SCHOOL (CONTINUED)

## EXPENDITURE

From Fellowship Funds and Gifts, . . . . .		\$900.00
From Scholarship and Aid Funds and Gifts, . . . . .		8,780.00
From Sundry Funds for Special Purposes.		
Edward Austin (Bacteriological Laboratory), .	\$518.89	
J. Ingersoll Bowditch, Physiology, . . . . .	528.80	
Dr. John C. Cutter Bequest (part), . . . . .	318.65	
Thomas Dwight Memorial, . . . . .	494.58	
George Fabyan Foundation for Comparative Pathology (part), . . . . .	8,000.76	
Charles F. Farrington (part), . . . . .	758.83	
F. B. Greenough Fund, . . . . .	169.86	
Henry Jackson Endowment:		
Warren Anatomical Museum (part), . . .	1,699.93	
Walter Augustus Lecompte Professorship of Otology (part), . . . . .	382.85	
Harriet Newell Lowell, . . . . .	1,607.96	
E. D. Morgan Gift, . . . . .	194.44	
Repayment Anatomical Laboratory, . . . . .	436.64	
"    Bacteriological Laboratory, . . . . .	51.00	
"    Chemical Laboratory, . . . . .	946.92	
"    Department Medicine Laboratory, . . .	44.20	
"    Neuropathological Laboratory, . . . .	685.95	
"    Pathological Laboratory, . . . . .	10.00	
"    Comparative Pathological Laboratory, .	22.02	
"    Pharmacological Laboratory, . . . . .	79.08	
"    Physiological Laboratory, . . . . .	345.70	
"    Department of Preventive Medicine and Hygiene Laboratory, . . . . .	88.00	
"    Surgical Laboratory, . . . . .	48.44	
"    Syphilological Laboratory, . . . . .	1,130.00	
Proctor, for the study of Chronic Diseases, . .	2,351.99	
Maurice H. Richardson Memorial, Surgery, . .	168.51	
Henry Francis Sears Fund for Pathology (part), . . . . .	1,434.49	
Surgical Laboratory, . . . . .	848.58	
William H. Thorndike Fund, . . . . .	312.03	
Zoe D. Underhill Fund, . . . . .	475.00	
James C. White Bequest, . . . . .	8.95	
Edward Wigglesworth Professorship of Der- matology (part), . . . . .	480.00	
Morrill Wyman Medical Research (part), . .	240.00	19,852.55
Amount carried forward, . . . . .		\$29,552.55

## MEDICAL SCHOOL (CONTINUED)

## EXPENDITURE

Amount brought forward, . . . . .		\$29,532.55
From Income of Funds and Gifts for <b>Huntington</b>		
Memorial Cancer Hospital:		
Memorial Cancer Hospital Endowment Fund, . . .	\$6,730.05	
Memorial Cancer Hospital Proctor Maintenance		
Fund, . . . . .	376.77	
Francis Bartlett Free Bed Fund, . . . . .	257.50	
T. Jefferson Coolidge for Research, . . . . .	108.00	
Caroline Brewer Croft Fund, . . . . .	4,739.29	
William Endicott Fund, . . . . .	1,287.50	
Lawrence Carteret Fenno Fund, . . . . .	1,030.00	
L. C. Fenno Memorial Free Bed Fund, . . . . .	257.50	
Flattery Research Fund, . . . . .	750.00	
Franklin H. Hooper Memorial Free Bed Fund, . . . . .	257.50	
A. L. Hopkins Free Bed Fund, . . . . .	257.50	
Maria D. Lockwood Memorial, . . . . .	2,612.54	
Julia M. Moseley Fund, . . . . .	875.00	
Clara E. Payson Memorial Free Bed Fund, . . . . .	257.50	
Emily J. Proctor Fund, . . . . .	128.75	
Research Laboratory Fund, . . . . .	442.36	
Gifts for current expenses, . . . . .	14,730.00	
Gifts for salaries, . . . . .	3,166.68	
Gift for electrical apparatus, . . . . .	50.00	
" social service worker, . . . . .	44.79	
" services of technician, . . . . .	165.00	
		38,519.23
From Sundry Gifts for Special Purposes, . . . . .		27,893.36
From fees received for use of microscopes, . . . . .		950.48
Appropriations.		
Advertising and catalogues, . . . . .	\$515.44	
Anatomy, . . . . .	7,075.02	
Animal committee, . . . . .	728.34	
Animal Farm, . . . . .	1,500.00	
Books and service for the library, . . . . .	4,146.78	
Physiology, . . . . .	3,821.91	
Comparative Physiology, . . . . .	1,136.13	
Biological Chemistry, . . . . .	3,990.08	
Bacteriology, . . . . .	2,326.08	
Pathology, . . . . .	2,118.90	
Preventive Medicine and Hygiene, . . . . .	3,308.46	
Pharmacology, . . . . .	2,393.48	
Pediatrics, . . . . .	50.00	
Surgery, . . . . .	1,526.76	
Obstetrics, . . . . .	54.00	
Diseases of the Nervous System, . . . . .	250.00	
Medicine, . . . . .	2,926.53	37,861.91
Amount carried forward, . . . . .		\$134,753.53

## MEDICAL SCHOOL (CONTINUED)

## EXPENDITURE

Amount brought forward, . . . . .		\$184,758.53	
<b>Administrative expenses.</b>			
Salaries, . . . . .	\$8,278.21		
Services and wages, . . . . .	2,384.20		
Office supplies and expenses, . . . . .	1,338.81	7,000.72	
<b>General.</b>			
Salaries for instruction :			
From Austin Teaching Fellowships, \$1,856.19			
Charles F. Folsom Fellowship, 383.84			
Sundry Funds and Gifts, . . . . 93,978.53			
General Income, . . . . . 28,354.54	\$124,572.60		
Services and wages, . . . . .	34.80		
Equipment and supplies, . . . . .	70.68		
Stationery, postage, telephone and telegraph, . . .	1,661.54		
Printing, . . . . .	92.70		
Boston Medical Library, . . . . .	150.00		
Diplomas, . . . . .	54.90		
Dues Association of Medical Colleges, . . . . .	25.00		
Blue books, . . . . .	124.21		
Adjustment to restore income of Henry P. Walcott Fellowship used in 1916-17, . . . . .	1,000.00		
Adjustment to restore Laboratory Repayment Funds, used in 1916-17, . . . . .	423.68		
Legal expenses, . . . . .	80.00		
Repairs to Van Dyke Street, . . . . .	48.60		
Sundries, . . . . .	61.78		
Repairs and equipment, land and buildings, . . . .	4,275.15		
Caretaking, land and buildings, . . . . .	15,960.52		
Heat and power, . . . . .	136,139.58	284,775.74	
Retiring allowance, . . . . .		1,000.00	
Interest on advances, . . . . .		1,455.42	
<b>University charge.</b>			
President's Office, salaries and expenses, . . . . .	\$1,218.33		
Treasurer's Office, care of investments, . . . . .	2,099.77		
Bursar's Office, collections and payments, . . . .	2,929.39		
Inspector of Grounds and Buildings, salary and expenses, . . . . .	247.94		
Publication Office, salary and expenses, . . . . .	58.92		
Annual Catalogue, . . . . .	331.98		
Purchasing Agent, . . . . .	98.36	6,984.64	
Amount carried forward, . . . . .		\$435,975.05	

**MEDICAL SCHOOL (CONTINUED)****EXPENDITURE**

Amount brought forward, . . . . .				\$485,975.05
Balance constituted as follows :				
Balance of restricted income				
Added to Funds and Gifts, . . . . .			\$125,863.58	
Carried to General Suspense, . . . . .			904.77	
				<u>\$126,768.35</u>
Less Deficiency of restricted income met by				
Charges against Funds and Gifts, \$9,181.84				
Advances charged to General Suspense, . . . . .			697.87	
Deficiency of General Income carried to				
General Suspense, . . . . .	23,092.42	32,921.63	93,846.72	
				<u><u>\$529,821.77</u></u>

**SCHEDULE 18**

**GRADUATE SCHOOL OF MEDICINE**

**INCOME AND EXPENDITURE**

**For the year ended June 30, 1918**

**INCOME**

**Income of Funds and Gifts.**

Graduate School of Medicine balance, interest, . .	\$481.04		
Frederick C. Shattuck Fund, interest, . . .	6,630.57		
Gifts for Department of Tropical Medicine :			
Gifts, . . . . .	\$8,000.00		
Other receipts, . . . . .	237.86	8,237.86	\$15,299.47

Tuition and other fees, . . . . .	18,500.00		
			<u>\$28,799.47</u>

**EXPENDITURE**

For School of Tropical Medicine, . . . . .	\$12,117.97		
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**Dean's Office.**

Salaries, . . . . .	\$641.68		
Services and wages, . . . . .	1,096.34		
Equipment and supplies, . . . . .	47.13		
Stationery, postage, telephone and telegraph, . . .	128.58		
Printing, . . . . .	30.35		
Sundries, . . . . .	50.40	1,994.48	

**General.**

Salaries, . . . . .	\$12,498.58		
Equipment and supplies, . . . . .	51.42		
Stationery and postage, . . . . .	76.09		
Printing, . . . . .	371.66		
Advertising, . . . . .	182.01		
Expenses of course for Medical Naval officers, . .	293.00		
Sundries, . . . . .	82.95	18,555.71	

**University charge.**

Bursar's Office, . . . . .	\$37.70		
Inspector of Grounds and Buildings, . . . . .	1.42		
Annual Catalogue, . . . . .	47.41	136.53	

Amount carried forward, . . . . .	\$27,804.69		
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## GRADUATE SCHOOL OF MEDICINE (CONTINUED)

## EXPENDITURE

Amount brought forward, . . . . .	\$27,804.69		
Balance constituted as follows:			
Balance of restricted income added to Funds and Gifts, . . . . .	\$3,085.48		
<i>Less</i>			
Deficiency of restricted income met by Charges against Funds and Gifts, . .	\$285.02		
Deficiency of general income met by previous balances credited to General Suspense, . . . . .	1,755.68	2,040.70	994.78
			<u>\$28,799.47</u>

## SCHEDULE 19

DENTAL SCHOOL  
INCOME AND EXPENDITURE

For the year ended June 30, 1918

## INCOME

## Income of Funds and Gifts.

Dental School Endowment (1880), . . . . .	\$486.05	
Dental School Endowment (1911), . . . . .	1,388.70	
Dental School Endowment of the Class of 1886,	2.58	
" " " " " " 1888,	5.15	
" " " " " " 1891,	.57	
" " " " " " 1907,	.51	
" " " " " " 1909,	2.57	

## Harvard Dental Alumni Endowment:

Interest, . . . . .	\$326.77	
Gifts to be added to income, . . .	80.00	406.77
John D. Bryant, . . . . .		596.78
Helen Collamore, . . . . .		520.15
Katherine C. Pierce Endowment, . . . . .		541.87
Proctor Bequest, . . . . .		25.75
Mary F. Russell Bequest, . . . . .		257.50
Joseph Warren Smith, Jr., . . . . .		581.74
Henry C. Warren Endowment, . . . . .	1,184.50	\$5,945.64

## Gifts for immediate use.

Gift from Trustees, estate of Harriet N. Lowell,		
Interest, . . . . .	\$81.77	
Gifts for expenses of Infirmary, . . . . .	205.00	286.77

## Receipts from students.

Tuition fees, regular courses, . . . . .	\$33,906.87	
Less transferred to Medical School, 6,200.00	\$27,706.87	
Amounts carried forward, . . . . .	\$27,706.87	\$6,232.41

## DENTAL SCHOOL (CONTINUED)

## INCOME

Amounts brought forward, . . . . .	\$27,706.87	\$6,232.41
Receipts from students ( <i>continued</i> ).		
Chemistry, breakage and supplies, . . . . .	1,584.51	
Examination fees, . . . . .	38.00	
Mechanical and operative dentistry, breakage and supplies, . . . . .	760.51	30,084.89
Fees from Infirmary, . . . . .		18,824.82
Sale of gold, . . . . .	\$1,285.38	
" instruments, . . . . .	815.00	
" radiographs, . . . . .	1,351.00	
" books, . . . . .	114.00	
Use of rooms by State Board for examination in Dentistry, . . . . .	250.00	
Sundry receipts, . . . . .	848.26	3,618.64
		<u>\$58,705.76</u>
Balance constituted as follows:		
Deficiency of restricted income met by charges against Funds and Gifts, . . . . .	\$4,278.60	
Deficiency of general income carried to General Suspense, . . . . .	9,858.47	
	<u>\$18,632.07</u>	
Less Balance of restricted income carried to Funds and Gifts, . . . . .	298.87	18,888.70
		<u><u>\$72,039.46</u></u>

## EXPENDITURE

From Funds and Gifts.		
Harriet Newell Lowell, . . . . .	\$4,360.27	
Less paid for salaries, . . . . .	2,800.00	\$1,560.27
Gift for X-ray apparatus, . . . . .	.10	\$1,560.37
Dean's Office.		
Services and wages, . . . . .		1,364.25
General.		
Salaries for instruction, . . . . .	\$20,750.00	
Services and wages, . . . . .	10,094.05	
Equipment and supplies, . . . . .	16,024.54	
Stationery, postage, telephone and telegraph, . . . . .	623.18	
Printing, . . . . .	205.98	
Advertising, . . . . .	800.16	
Books, . . . . .	168.01	
Laundry, . . . . .	509.54	
Diplomas, . . . . .	111.70	
Rent of piano, . . . . .	45.00	
Boston Medical Library, . . . . .	50.00	
Dues to Institute of Dental Teachers, . . . . .	20.00	
Amounts carried forward, . . . . .	\$49,402.16	\$2,824.62

## DENTAL SCHOOL (CONTINUED)

## EXPENDITURE

Amounts brought forward, . . . . .	\$49,402.16	\$2,824.62
<b>General (continued).</b>		
Binding, . . . . .	96.85	
Freight and express, . . . . .	95.89	
Refunds to patients, . . . . .	303.65	
Proctors, . . . . .	105.00	
Travelling expenses, . . . . .	185.00	
Dues to Dental Faculties Association of American Universities, . . . . .	50.00	
Blue books, . . . . .	32.15	
Sundries, . . . . .	81.79	50,302.49
Interest on advances, general school account, . . . . .	\$2,158.89	
Interest on advances, building account, . . . . .	5,201.01	7,359.90
Repairs and equipment, land and buildings, . . . . .	\$469.52	
Caretaking, land and buildings, . . . . .	9,415.60	9,885.12
<b>University charge.</b>		
President's Office, salaries and expenses, . . . . .	\$665.97	
Treasurer's Office, care of investments, . . . . .	55.44	
Bursar's Office, collections and payments, . . . . .	771.96	
Inspector of Grounds and Buildings, salary and expenses, . . . . .	24.54	
Annual Catalogue, . . . . .	94.84	
Purchasing Agent, . . . . .	25.11	
Publication Office, . . . . .	29.47	1,667.33
		<u>\$72,039.46</u>

SCHEDULE 20

## BUSSEY INSTITUTION

## INCOME AND EXPENDITURE

For the year ended June 30, 1918

## INCOME

## Income of Funds and Gifts.

Bussey Trust (part), . . . . .	\$10,297.85	
Bussey Endowment, . . . . .	6,865.16	
Mrs. William H. Bliss, . . . . .	2,500.00	
Anna C. Ames Memorial Scholarship,		
Interest, . . . . .	\$141.88	
Gift, . . . . .	425.00	566.88
Amount carried forward, . . . . .	\$20,229.84	

## BUSSEY INSTITUTION (CONTINUED)

## INCOME

Amount brought forward, . . . . .	\$20,229.84	
<b>Income of Funds and Gifts (<i>continued</i>).</b>		
George H. Emerson Scholarship (part), . . . . .	200.00	
Priscilla Clark Hodges Scholarship, . . . . .	228.25	
Gift for Forestry Department, interest, . . . . .	21.58	
Gifts raised by Visiting Committee, interest, . . . . .	49.08	
Gift for salary, . . . . .	150.00	
Forestry operations at Petersham, . . . . .	9,055.46	\$29,984.21
Tuition fees, . . . . .	\$775.00	
Graduation fees, . . . . .	10.00	
Rent of Antitoxin stable, . . . . .	1,008.82	
Rent of barn, . . . . .	50.00	
Rents of dormitory rooms, . . . . .	20.00	
Rent of house, . . . . .	600.00	
Laboratory fees, . . . . .	12.50	
Sale of wood, hay and vegetables, . . . . .	168.99	
Rental of furniture, . . . . .	6.00	2,650.81
		<u>\$32,585.02</u>

## Balance constituted as follows:

Deficiency in general income met by income from the Gordon McKay Endowment . . . . .	\$11,714.65
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*Less*

<b>Balance of restricted income credited to</b>			
Funds and Gifts, . . . . .	\$1,990.74		
General Suspense, . . . . .	2,554.07	4,544.81	7,169.84
			<u>\$39,754.86</u>

## EXPENDITURE

## From Scholarship Funds.

Anna C. Ames Memorial, . . . . .	\$400.00	
Mrs. William H. Bliss, . . . . .	600.00	
George H. Emerson, . . . . .	200.00	
Priscilla Clark Hodges, . . . . .	225.00	\$1,425.00

## From Funds and Gifts for special purposes.

Forestry operations at Petersham, . . . . .		6,501.39
Salaries, . . . . .	\$18,250.00	
Services and wages, . . . . .	5,521.54	
Equipment and supplies, . . . . .	1,236.84	
Stationery, postage, telephone and telegraph, . . . . .	336.14	
Printing, . . . . .	288.87	
Books, . . . . .	217.77	
Labor and teaming, . . . . .	726.00	
Freight and express charges, . . . . .	18.42	
Laundry, . . . . .	46.99	

Amounts carried forward, . . . . .	\$26,687.57	\$7,926.39
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**BUSSEY INSTITUTION (CONTINUED)****EXPENDITURE**

Amounts brought forward, . . . . .	\$26,687.57	\$7,926.39
Binding books, . . . . .	36.90	
Advertising, . . . . .	10.00	
General expenses, Department of Forestry, . . . . .	347.54	
Roadmaking at Petersham, . . . . .	700.00	
Sundries, . . . . .	39.25	
Repairs, land and buildings, . . . . .	978.86	
Caretaking, land and buildings, . . . . .	2,370.92	31,120.54
University charge.		
President's Office, salaries and expenses, . . . . .	\$18.94	
Treasurer's Office, care of investments, . . . . .	337.80	
Bursar's Office, collections and payments, . . . . .	284.97	
Inspector of Grounds and Buildings, salary and ex-		
penses, . . . . .	2.81	
Annual Catalogue, . . . . .	47.41	691.93
Stillman Infirmary, Schedule 35, . . . . .		16.00
		<u>\$39,754.86</u>

**SCHEDULE 21****ARNOLD ARBORETUM****INCOME AND EXPENDITURE**

For the year ended June 30, 1918

**INCOME****Income of Funds and Gifts.**

Arnold Arboretum, . . . . .	\$6,470.98	
Arnold Arboretum Endowment (1917), . . . . .	12,711.80	
James Arnold, . . . . .	8,511.04	
Arboretum Construction Gifts, interest, . . . . .	4,047.38	
Robert Charles Billings, . . . . .	687.75	
William L. Bradley Fund:		
Interest, . . . . .	\$1,030.00	
Sales, . . . . .	160.00	1,190.00
Bussey, for the Arnold Arboretum, . . . . .	118.86	
Helen Collamore Bequest, . . . . .	180.04	
Massachusetts Society for Promoting Agriculture, .	399.28	
Francis Skinner, . . . . .	1,030.00	
Francis Skinner, Jr. Bequest, . . . . .	515.00	
Bayard and Ruth S. Thayer, . . . . .	1,205.00	
Edward Whitney, . . . . .	65.87	\$37,083.00
Amount carried forward, . . . . .		<u>\$37,083.00</u>

## ARNOLD ARBORETUM (CONTINUED)

## INCOME

Amount brought forward, . . . . .		\$37,088.00	
For botanical exploration in China.			
Sale of photographs, material and publications, . . . . .	\$928.09		
Interest, . . . . .	85.28	\$968.82	
Sears Gift for Library. Interest, . . . . .		16.19	
Gifts for expedition to Korea.			
Gifts, . . . . .	\$3,205.88		
Interest, . . . . .	57.47	3,268.35	
Gifts for present use, . . . . .		25,655.00	29,897.86
Subscriptions to Bulletins of Popular Information, . . .		\$374.15	
Sale of surplus material, . . . . .		280.00	
Sale of Japanese photographs, plants and publications, .		257.86	
Sale of sundry publications, . . . . .		150.20	
Sale of lantern slides, . . . . .		250.00	
Sale of Library Catalogue, . . . . .		80.00	
Sale of Philippine plants, . . . . .		94.20	
Sale of herbarium cases, . . . . .		20.00	
Share of collector's expenses repaid, . . . . .		868.12	2,819.58
			<u>\$69,800.89</u>

## EXPENDITURE

From Sears Gift for Library, . . . . .	\$272.90		
From Chinese exploration gifts, . . . . .	118.42		
From gift for expedition to Korea, . . . . .	3,866.87	\$4,258.19	
General.			
Salaries, . . . . .	\$7,826.70		
Services and wages, . . . . .	10,486.61		
Equipment and supplies, . . . . .	3,944.85		
Stationery, postage, telephone and telegraph, . . .	705.55		
Labor and teaming, . . . . .	15,289.50		
General printing, . . . . .	10.00		
Bradley Bibliography of Trees, publishing expenses,	5,697.27		
Printing Library Catalogue, . . . . .	2,618.71		
Publicity work, . . . . .	1,500.00		
Expenses of expeditions for collecting, . . . . .	1,842.68		
Freight, express, etc., . . . . .	124.27		
Printing bulletins and expenses of mailing same, . .	480.06		
Books, . . . . .	248.20		
New greenhouse, . . . . .	8,768.00		
New fence and gates, . . . . .	800.00		
Water, heat, light, power and protection, . . . .	979.99		
Repairs, buildings, . . . . .	1,805.19	62,627.58	
Amount carried forward, . . . . .		\$66,880.77	

## ARNOLD ARBORETUM (CONTINUED)

## EXPENDITURE

Amount brought forward, . . . . .		\$66,880.77
University charge.		
Treasurer's Office, care of investments, . . . . .	\$264.06	
Bursar's Office, collections and payments, . . . . .	220.32	
Purchasing Agent, . . . . .	11.80	495.68
		<u>\$67,376.45</u>
Balance constituted as follows:		
Balance of restricted income added to Funds and Gifts, . . . . .	\$1,841.32	
Balance of general income added to Arboretum Construction Gifts, . . . . .	1,442.85	
		<u>\$2,784.17</u>
Less:		
Deficiency of restricted income met by charges against Funds and Gifts, . . . . .	860.28	1,923.94
		<u><u>\$69,305.59</u></u>

## SCHEDULE 22

## BOTANIC GARDEN

## INCOME AND EXPENDITURE

For the year ended June 30, 1918

## INCOME

Income of Funds.		
Botanic Garden balance, interest, . . . . .	\$213.39	
Botanic Department ( $\frac{1}{4}$ income), . . . . .	1,280.42	
Lowell, for a Botanic Garden, . . . . .	3,557.86	
John L. Russell ( $\frac{1}{4}$ income), . . . . .	25.75	\$5,076.92
		<u>\$5,076.92</u>
Material supplied courses in Botany, Radcliffe College, . . . . .		320.00
		<u>\$5,396.92</u>
Deficiency of income met by previous balances credited to General Suspense, . . . . .		3,808.96
		<u><u>\$9,205.88</u></u>

## EXPENDITURE

Labor, . . . . .	\$5,925.73
Equipment and supplies, . . . . .	774.13
Stationery, postage, telephone and telegraph, . . . . .	37.42
Water, heat, light, power and protection, . . . . .	1,348.39
Repairs and equipment, land and buildings, . . . . .	495.14
Express and cartage, . . . . .	189.23
	<u>\$8,770.04</u>
Amount carried forward, . . . . .	\$8,770.04

## BOTANIC GARDEN (CONTINUED)

## EXPENDITURE

Amount brought forward, . . . . .	\$3,770.04	
Expenses sugar cane investigation, . . . . .	200.00	
Travelling expenses, . . . . .	102.46	
Sundries, . . . . .	43.78	\$9,116.23
University charge.		
Treasurer's Office, care of investments, . . . . .	\$47.38	
Bursar's Office, collections and payments, . . . . .	41.52	
Inspector of Grounds and Buildings, salary and expenses, . . . . .	.75	89.65
		<u>\$9,205.88</u>

## SCHEDULE 23

## BOTANICAL MUSEUM

## INCOME AND EXPENDITURE

For the year ended June 30, 1918

## INCOME

Botanical Museum balance, interest, . . . . .	\$71.35	
Gifts for present use.		
Gift for Botanical Museum:		
Gift, . . . . .	\$1,500.00	
Interest, . . . . .	20.79	1,520.79
Gift for Cases, interest, . . . . .	23.90	\$1,616.04
		<u>\$1,616.04</u>
Balance constituted as follows:		
Deficiency of restricted income met by charges against Funds and Gifts, . . . . .	\$176.10	
Deficiency of general income met by previous balances credited to General Suspense, . . . . .	661.37	837.47
		<u>\$2,453.51</u>

## EXPENDITURE

From Gift for Cases, Botanical Museum, . . . . .	\$200.00	
Services and wages, . . . . .	\$1,785.00	
Equipment and supplies, . . . . .	467.75	
Stationery, postage, telephone, etc., . . . . .	19.20	
Printing, . . . . .	11.22	
University charge.		
Bursar's Office, collections and payments, . . . . .	20.34	2,258.51
		<u>\$2,453.51</u>

# GRAY HERBARIUM

## INCOME AND EXPENDITURE

For the year ended June 30, 1918

## INCOME

## Income of Funds.

Gray Herbarium balance, interest, . . . . .	\$558.41	
Robert Charles Billings, . . . . .	772.50	
Helen Collamore Bequest, . . . . .	78.02	
Asa Gray Memorial, . . . . .	1,705.22	
Asa Gray Professorship of Systematic Botany, .	1,104.73	
Herbarium, . . . . .	1,063.78	
Rose Hollingsworth, . . . . .	25.75	
Sarah E. Potter Endowment, . . . . .	10,376.74	
John L. Russell ( $\frac{1}{4}$ income), . . . . .	77.25	\$15,757.40
Asa Gray's copyrights, . . . . .		448.10
Gifts for immediate use, . . . . .		1,290.00
Sale of card index, . . . . .		758.06
" other publications, . . . . .		37.91
" duplicate books and pamphlets, . . . . .		151.34
		<u>\$18,432.81</u>

## EXPENDITURE

## From Asa Gray Professorship of Systematic Botany Fund.

Salary of Asa Gray Professor (part), . . . . .		\$1,104.73
Salaries, . . . . .	\$4,728.60	
Services and wages, . . . . .	5,580.81	
Equipment and supplies, . . . . .	980.91	
Stationery, postage, telephone and telegraph, . . . . .	205.59	
Printing, . . . . .	2,294.61	
Books, . . . . .	338.50	
Binding, . . . . .	111.55	
Freight and express, . . . . .	46.36	
Expenses of collectors, . . . . .	978.47	
Specimens, . . . . .	250.00	
Sundries, . . . . .	20.40	
Repairs and equipment, land and buildings, . . . . .	28.22	
Caretaking, land and buildings, . . . . .	1,324.15	16,887.67
University charge.		
Treasurer's Office, care of investments, . . . . .	\$156.97	
Bursar's Office, collections and payments, . . . . .	157.19	
Inspector of Grounds and Buildings, salary and expenses, . . . . .	16.31	
Engineer, . . . . .	23.54	
Purchasing Agent, . . . . .	9.21	363.22
		<u>\$18,355.62</u>
Balance of general income carried to General Suspense, . . . . .		77.19
		<u>\$18,432.81</u>

**OBSERVATORY**

**INCOME AND EXPENDITURE**

**For the year ended June 30, 1918**

**INCOME**

**Income of Funds and Gifts.**

Advancement of Astronomical Science (1901), . .	\$563.87	
Advancement of Astronomical Science (1902), . .	1,646.50	
Amory Astronomical Fund, . . . . .	2,820.50	
Thomas G. Appleton, . . . . .	257.50	
J. Ingersoll Bowditch, . . . . .	128.75	
Uriah A. Boyden, . . . . .	9,527.50	
<b>Henry Draper Memorial:</b>		
Interest, . . . . .	\$959.81	
Gifts for income, . . . . .	4,000.00	4,959.81
<b>J. Rayner Edmands,</b> . . . . .	52.22	
<b>Charlotte Harris,</b> . . . . .	103.00	
<b>Haven,</b> . . . . .	2,317.50	
<b>James Hayward,</b> . . . . .	1,081.50	
Observatory Endowment, . . . . .	2,575.00	
Paine Professorship, . . . . .	2,575.00	
Robert Treat Paine, . . . . .	14,107.50	
Edward B. Phillips, . . . . .	5,680.14	
E. C. Pickering Fellowship, . . . . .	613.52	
Josiah Quincy, . . . . .	579.43	
James Savage ( $\frac{1}{4}$ net income), . . . . .	465.75	
David Sears (1845), . . . . .	1,376.49	
David Sears (1916), . . . . .	1,287.50	
Augustus Story, . . . . .	689.07	\$53,408.05
<b>George R. Agassiz Gift, Catalogue.</b>		
Gift, \$1,000.00		
Interest, 16.50	\$1,016.50	
<b>Maria Mitchell Fellowship:</b>		
Gift, . . . . .	\$250.00	
Interest, . . . . .	12.57	262.57
<b>Charles S. Hinchman Fellowship (gift),</b> . .	500.00	
Gift to defray cost of publication of Observatory Annals, Vol. 91, . . . . .	1,880.00	
Gifts for current use, . . . . .	250.00	3,909.07
<b>Use of house by College officer,</b> . . . . .		
	\$600.00	
<b>Sale of photographs,</b> . . . . .	26.75	
" Annals, . . . . .	86.88	
" sundry publications, . . . . .	161.16	874.79
		<u>\$58,191.91</u>

## OBSERVATORY (CONTINUED)

## EXPENDITURE

## From Advancement of Astronomical Science Fund (1901).

Overdraft of Uriah A. Boyden Fund, 1917-18,	\$1,889.29	
"    "    Draper Memorial Fund, 1917-18,	2,741.94	\$4,581.23

From George R. Agassiz Gift, . . . . . 999.96

## From Uriah A. Boyden Fund.

Services and wages, . . . . .	\$3,826.18
Equipment and supplies, . . . . .	890.88
Expedition to Jamaica, . . . . .	2,627.60
Expedition to Peru, . . . . .	3,535.68
Books, . . . . .	85.74
Freight, express, etc., . . . . .	401.26

\$11,866.79

Less overdraft transferred to Advancement of  
Astronomical Science Fund (1901), . . . .

1,889.29 9,977.50

## From Draper Memorial Fund.

Administrative and Executive expenses, . . . . .	\$1,500.00
Services and wages, . . . . .	4,551.75
Rent and care of space in building, . . . . .	1,650.00

\$7,701.75

Less overdraft transferred to Advancement of  
Astronomical Science Fund (1901), . . . .

2,741.94 4,959.81

From Edward C. Pickering Fellowship for Women, . . . . 500.11

From Maria Mitchell Fellowship Fund, . . . . . 530.16

From Josiah Quincy Fund, . . . . . 781.08

Salaries, . . . . . \$15,000.00

Services and wages, . . . . . 8,246.19

Equipment and supplies, . . . . . 2,928.71

Stationery, postage, telephone and telegraph, . . . . . 524.15

Printing, . . . . . 383.45

Binding, . . . . . 321.28

Books, . . . . . 84.30

Printing Annals, . . . . . 5,320.89

Use of house, . . . . . 90.00

Freight and teaming, . . . . . 169.54

Labor on grounds, . . . . . 1,712.58

Laundry work, . . . . . 57.21

Astronomical photographs bought, . . . . . 200.00

Sundries, . . . . . 32.83

Repairs and equipment, land and buildings, . . . . . 323.13

Caretaking, land and buildings, . . . . . 1,988.09

\$37,382.35

## Less amounts transferred

To Draper Memorial Fund, . . . \$3,150.00

To Josiah Quincy Fund, . . . 781.08 3,931.08 33,451.27

Amount carried forward, . . . . . \$55,331.12

## OBSERVATORY (CONTINUED)

## EXPENDITURE

Amount brought forward, . . . . .		\$55,831.12
University charge.		
Treasurer's Office, care of investments, . . . . .	\$482.86	
Bursar's Office, collections and payments, . . . . .	25.42	
Inspector's Office, salary and expenses, . . . . .	6.48	514.26
		<u>\$55,845.38</u>
Balance constituted as follows:		
Balance of restricted income added to		
Funds and Gifts, . . . . .	\$4,166.89	
Balance of general income added to Advancement		
of Astronomical Science (1901) Fund, . . . . .	2,666.24	
	<u>\$6,833.13</u>	
Less deficiency of restricted income met by		
Charges against Funds and Gifts, . . . . .	4,486.60	2,846.58
		<u>\$68,191.91</u>

## SCHEDULE 26

## BLUE HILL METEOROLOGICAL OBSERVATORY

## INCOME AND EXPENDITURE

For the year ended June 30, 1918

## INCOME

Income of A. Lawrence Rotch Bequest, . . . . .	\$2,721.31	
"    "    Waldo E. Forbes Fund, . . . . .	309.00	\$3,030.31
Gifts for present use, . . . . .		<u>4,250.00</u>
		<u>\$7,280.31</u>

## EXPENDITURE

Salary of Director, . . . . .	\$2,000.00	
Services and wages, . . . . .	1,935.02	
Equipment and supplies, . . . . .	271.75	
Stationery, postage, telephone and telegraph, . . . . .	126.84	
Printing, . . . . .	207.53	
Books and binding, . . . . .	34.00	
Freight and express, . . . . .	63.07	
Sundries, . . . . .	31.00	
Repairs, building, . . . . .	20.04	
Caretaking, building, . . . . .	677.50	\$5,366.75
University charge.		
Treasurer's Office, care of investments, . . . . .	\$26.59	
Bursar's Office, receipts and payments, . . . . .	8.47	35.06
		<u>\$5,401.81</u>
Balance of general income added to A. Lawrence Rotch		
Bequest, . . . . .		1,878.50
		<u>\$7,280.31</u>

MUSEUM OF COMPARATIVE ZOOLOGY

INCOME AND EXPENDITURE

For the year ended June 30, 1918

INCOME

Income of Funds.

Museum of Comparative Zoology balance, interest,	\$1,194.24	
Agassiz Memorial, . . . . .	15,848.55	
Alexander Agassiz Bequest, General Purposes.		
Interest, . . . . .	\$3,064.25	
Allowance from College to increase income to rate of income of funds in general investments, . . . . .	2,060.00	5,124.25
Alexander Agassiz Bequest for Publications, .	4,477.26	
George R. Agassiz, . . . . .	2,575.00	
George R. Agassiz Special Fund, . . . . .	2,575.00	
Louis Cabot, . . . . .	263.06	
Virginia Barret Gibbs Scholarship, . . . . .	349.94	
Gray Fund for Zoological Museum, . . . . .	2,575.00	
Sturgis Hooper, . . . . .	5,532.03	
Humboldt, . . . . .	486.41	
Willard Peele Hunnewell, . . . . .	288.66	
Permanent Fund for Museum of Zoology, . . . .	6,049.65	
Henry L. Pierce, Residuary (part), . . . . .	4,738.05	
Teachers' and Pupils', . . . . .	391.09	
Maria Whitney, . . . . .	381.84	
Maria Whitney and James Lyman Whitney,	19.67	\$52,264.70
Use of lecture rooms by Radcliffe College, . . . . .	\$700.00	
Sale of publications, . . . . .	511.16	
Sale of specimens, . . . . .	18.59	
Sundry sales, . . . . .	11.85	
Library fines, . . . . .	1.85	1,243.45
		<u>\$53,508.15</u>

EXPENDITURE

From Sturgis Hooper Fund.

Salary of Sturgis Hooper Professor, \$5,500.00		
Expenses, . . . . .	214.00	\$5,714.00
Alexander Agassiz Bequest for Publications, . . .	4,732.57	
Louis Cabot Fund, . . . . .	154.38	
Virginia Barret Gibbs Scholarship, . . . . .	325.00	
Humboldt Fund, . . . . .	375.00	
Willard Peele Hunnewell Fund, . . . . .	268.66	
Maria Whitney Fund, . . . . .	123.90	\$11,763.51
Amount carried forward, . . . . .		\$11,763.51

## MUSEUM OF COMPARATIVE ZOÖLOGY (CONTINUED)

## EXPENDITURE

Amount brought forward, . . . . .		\$11,763.51
Salaries, . . . . .	\$16,450.00	
Services and wages, . . . . .	8,400.04	
Equipment and supplies, . . . . .	1,688.36	
Stationery, postage, telephone and telegraph, . . . . .	118.47	
Printing, . . . . .	4,774.00	
Collections, . . . . .	800.00	
Books, . . . . .	246.38	
Binding, . . . . .	577.20	
Freight, cartage, etc. . . . .	236.89	
Laundry work, . . . . .	86.80	
Sundries, . . . . .	52.18	
Repairs, building, . . . . .	572.15	
Water, heat, light, power and protection, . . . . .	8,471.50	42,478.92
University charge.		
Treasurer's Office, care of investments, . . . . .	\$492.06	
Bursar's Office, collections and payments, . . . . .	175.83	667.89
		<u>\$54,905.32</u>
Less the following items transferred :		
To the College, Schedule 8 :		
Heating and service, . . . . .	\$3,625.00	
Publishing contributions from the Laboratory		
of Geography, . . . . .	200.00	
Services of librarian, . . . . .	250.00	
	<u>\$4,075.00</u>	
To the University, Schedule 7 :		
University charge, . . . . .	667.89	4,742.89
		<u>\$50,162.43</u>
Balance constituted as follows :		
Balance of restricted income added to		
Funds and Gifts, . . . . .	\$422.64	
Surplus of general income carried to		
General Suspense, . . . . .	3,410.36	
	<u>\$3,833.00</u>	
Less Deficiency of restricted income met by		
Charges against Funds and Gifts, . . . . .	487.28	3,345.72
		<u><u>\$53,508.15</u></u>

PEABODY MUSEUM OF AMERICAN ARCHAEOLOGY  
AND ETHNOLOGY

INCOME AND EXPENDITURE

For the year ended June 30, 1918

INCOME

Income of Funds.

Peabody Museum balance, interest, . . . . .	\$171.51	
Henry W. Haynes Bequest, . . . . .	51.50	
Hemenway Fellowship, . . . . .	686.70	
Mary Hemenway Fund for Archaeology, . . .	2,386.82	
Francis Cabot Lowell Memorial, . . . . .	51.50	
Peabody Building, . . . . .	1,489.78	
Peabody Collection, . . . . .	2,486.81	
Peabody Professor, . . . . .	2,486.81	
F. W. Putnam Fund, . . . . .	10.45	
Eliza O. and Mary P. Ropes (part), . . . .	881.73	
Thaw Fellowship, . . . . .	1,206.69	
Henry C. Warren Exploration, . . . . .	522.31	
Susan Cornelia Warren, . . . . .	257.50	
Robert C. Winthrop Scholarship, . . . . .	359.81	
Huntington Frothingham Wolcott, . . . . .	1,059.76	\$14,109.13

Gifts for special use.

Gifts, . . . . .	\$1,115.53	
Interest, . . . . .	67.72	1,183.25

Sale of publications, . . . . .		55.11
		<u>\$15,347.49</u>

EXPENDITURE

Mary Hemenway Fund, . . . . .	\$3,074.86	
Henry C. Warren Fund, explorations, . . . . .	459.64	
Huntington Frothingham Wolcott Fund, speci- mens, . . . . .	649.30	
Thaw Fellowship, . . . . .	1,205.85	
Robert C. Winthrop Scholarship, . . . . .	275.00	
Gifts for special use, . . . . .	2,441.81	\$8,105.96
Salaries, . . . . .	\$5,009.99	
Museum supplies and incidentals, . . . . .	576.80	
Museum labels, . . . . .	39.95	
Freight, express, customs and postage, . . . . .	400.80	
Telephone, telegraph and messengers, . . . . .	72.63	
Construction of cases, . . . . .	437.36	

Amounts carried forward, . . . . .	\$6,587.53	\$8,105.96
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## PEABODY MUSEUM (CONTINUED)

## EXPENDITURE

Amounts brought forward, . . . . .	\$6,537.53	\$8,105.96
Photo supplies and prints, . . . . .	59.46	
Explorations, . . . . .	50.00	
Library books bought, . . . . .	1.62	
Library binding, . . . . .	114.81	
Library incidentals, . . . . .	50.00	
Repairs to new addition, . . . . .	24.02	
Insurance, . . . . .	28.04	
Repairs and equipment, land and buildings, . . . . .	105.83	
Caretaking, land and buildings, . . . . .	8,842.17	10,808.48
University charge.		
Treasurer's Office, care of investments, . . . . .	\$141.50	
Bursar's Office, collections and payments, . . . . .	184.81	
Inspector of Grounds and Buildings, salary and expenses, . . . . .	85.10	
Watchmen, . . . . .	284.79	
Janitor, . . . . .	180.19	
Purchasing Agent, . . . . .	4.59	780.48
Less amounts transferred.		\$19,694.92
Repairs, land and buildings, . . . . .	\$105.83	
Caretaking, land and buildings, . . . . .	8,842.17	
University charge, . . . . .	780.48	4,728.48
The above amounts are transferred as follows:		\$14,966.44
90% to University, Schedule 7, . . . . .	\$4,255.64	
10% to College, Schedule 8, . . . . .	472.84	
	<u>\$4,728.48</u>	
Balance constituted as follows:		
Balance of restricted income added to Fund and Gifts, \$1,255.43		
Surplus of general income carried to General		
Suspense, . . . . .	1,071.72	
	<u>\$2,327.15</u>	
Less Deficiency of restricted income met by charges against Funds and Gifts, . . . . .	1,946.10	381.05
		<u>\$15,847.49</u>

**SEMITIC MUSEUM**  
**INCOME AND EXPENDITURE**  
For the year ended June 30, 1918

**INCOME**

Income from Teachers' Endowment (part), . . . . .		\$2,000.00
Gifts for Semitic Collection, interest, . . . . .		23.93
Gifts for excavations in Palestine, interest, . . . . .		40.44
Gifts for general purposes. Interest, . . . . .	\$90.64	
Other receipts, . . . . .	4.17	94.81
		<u>\$2,159.18</u>

**EXPENDITURE**

From gifts for Semitic Collection, . . . . .	\$3.00	
" gifts for excavations in Palestine, . . . . .	96.60	
" gifts for Semitic Museum, . . . . .	6.40	\$106.00
Curator, . . . . .		2,000.00
Repairs and equipment, land and building, . . . . .	\$31.64	
Caretaking, land and building, . . . . .	1,381.62	1,363.26
University charge.		
Treasurer's Office, care of investments, . . . . .	\$22.42	
Bursar's Office, collections and payments, . . . . .	2.97	
Watchmen, . . . . .	63.15	
Engineer, . . . . .	24.55	
Janitor, . . . . .	70.68	183.72
		<u>\$3,652.98</u>
Less amounts transferred.		
General expenses, . . . . .	\$1,363.26	
University charge, . . . . .	183.72	1,546.98
		<u>\$2,106.00</u>
The above amounts are transferred as follows :		
70 % to University, Schedule 7, . . . . .	\$1,082.89	
30 % to Divinity School, Schedule 15, . . . . .	464.09	
	<u>\$1,546.98</u>	
Balance constituted as follows :		
Balance of restricted income added to Funds and Gifts, . . . . .	\$109.34	
Less Deficiency of restricted income met by charges against Funds and Gifts, . . . . .	56.16	53.18
		<u>\$2,159.18</u>

# GERMANIC MUSEUM INCOME AND EXPENDITURE

For the year ended June 30, 1918

## INCOME

### Income of Funds and Gifts.

Germanic Museum balance, interest, . . . . .	\$292.69	
Emperor William, . . . . .	1,856.25	
Germanic Museum, . . . . .	515.72	
Germanic Museum Endowment, . . . . .	3,615.97	
Hugo Reisinger Bequest, . . . . .	1,369.18	
Gift for work of art, interest, . . . . .	11.95	\$7,161.76
		<u>\$7,161.76</u>

## EXPENDITURE

From gifts for works of art, . . . . . \$1,150.00  
General.

Equipment and supplies, . . . . .	\$10	
Travelling expenses, . . . . .	95.70	
Dues Archaeological Institute of America, . . . .	20.00	
Repairs and equipment, land and building, . . . .	10.82	
Caretaking, land and building, . . . . .	1,022.80	1,148.92

### University charge.

Treasurer's Office, care of investments, . . . . .	\$85.79	
Bursar's Office, collections and payments, . . . .	18.18	
Inspector of Grounds and Buildings, salary and expenses, . . . . .	16.17	
Watchmen, . . . . .	30.45	
Engineer, . . . . .	11.88	157.42
		<u>\$2,456.84</u>

Less University charge transferred to University, Schedule 7, . . . 157.42  
\$2,298.92

### Balance constituted as follows :

Balance of restricted income added to Funds and Gifts, \$3,952.03		
Balance of general income carried to General Suspense, 2,048.86		
	<u>\$6,000.89</u>	
Less Deficiency of restricted income met by charges against Funds and Gifts, . . . . .	1,188.05	4,862.84
		<u>\$7,161.76</u>

## WILLIAM HAYES FOGG ART MUSEUM

## INCOME AND EXPENDITURE

For the year ended June 30, 1918

## INCOME

## Income of Funds and Gifts:

**William Hayes Fogg.**

Interest, . . . . .	\$3,597.87	
Gifts to be added to income, . . .	2,560.00	\$5,157.87

<b>Gray Fund for Engravings, . . . . .</b>		<b>839.35</b>
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<b>William M. Prichard, . . . . .</b>		<b>776.41</b>
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<b>John Witt Randall, . . . . .</b>		<b>1,553.75</b>
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<b>Mary R. Searle, . . . . .</b>		<b>95.79</b>
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<b>Gift Mrs. Samuel Sachs for work of art, . . .</b>		<b>2,500.00</b>
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<b>Gifts from the Society of Friends of the Fogg Art Museum. Gifts, . . . . .</b>	<b>\$2,487.00</b>	
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Interest, . . . . .	17.05	2,504.05	\$13,427.22
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Sale of photographs, catalogue, etc., . . . . .			46.12
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			<u>\$13,473.34</u>
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## EXPENDITURE

## From the following Funds and Gifts:

**Gray Fund for Engravings.**

Curator, . . . . .	\$250.00	
--------------------	----------	--

Services, . . . . .	169.68	
---------------------	--------	--

Engravings, . . . . .	550.00	\$969.68
-----------------------	--------	----------

<b>William M. Prichard, collections, . . . . .</b>		<b>375.86</b>
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**John Witt Randall.**

Curator, . . . . .	\$250.00	
--------------------	----------	--

Expenses, . . . . .	1,215.87	1,465.87
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<b>Mary R. Searle, books, . . . . .</b>		<b>96.64</b>
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<b>Gifts from the Society of Friends of the Fogg Art Museum, . . . . .</b>		<b>2,617.25</b>
--	--	-----------------

<b>Gift of Mrs. Samuel Sachs for work of art, . .</b>	<b>2,500.00</b>	<b>\$8,025.30</b>
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## General.

Director, . . . . .	\$500.00	
---------------------	----------	--

Services and wages, . . . . .	1,832.50	
-------------------------------	----------	--

Equipment and supplies, . . . . .	1,701.23	
-----------------------------------	----------	--

Stationery, postage, telephone and telegraph, . . .	152.10	
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Insurance, . . . . .	692.73	
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Honorarium to lecturer, . . . . .	200.00	
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Printing, . . . . .	36.27	
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Amounts carried forward, . . . . .	\$5,114.82	\$8,025.30
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## WILLIAM HAYES FOGG ART MUSEUM (CONTINUED)

## EXPENDITURE

Amounts brought forward, . . . . .	\$5,114.82	\$8,025.30
General ( <i>continued</i> ).		
Freight, express, etc., . . . . .	56.26	
Sundries, . . . . .	45.60	
Repairs and equipment, building, . . . . .	89.66	
Caretaking, building, . . . . .	4,077.10	9,338.44
University charge.		
Treasurer's Office, care of investments, . . . . .	\$58.50	
Bursar's Office, collections and payments, . . . . .	170.32	
Inspector of Grounds and Buildings, salary and expenses, . . . . .	182.89	
Engineer, . . . . .	36.34	
Watchmen, . . . . .	98.48	
Purchasing Agent, . . . . .	25.87	567.40
		<u>\$17,926.14</u>
Less amounts transferred.		
Caretaking, building, . . . . .	\$4,077.10	
University charge, . . . . .	567.40	4,644.50
		<u>\$18,281.64</u>
The above amounts are transferred as follows :		
10 % to University, Schedule 7, . . . . .	\$464.45	
90 % to College, Schedule 8, . . . . .	4,180.05	
	<u>\$4,644.50</u>	
Balance constituted as follows :		
Balance of restricted income added to Funds and Gifts, . . . . .	\$488.43	
Less Deficiency of restricted income met by		
Charges against Funds and Gifts, . . . . .	296.78	191.70
		<u>\$18,478.34</u>

## SCHEDULE 32

## APPLETON CHAPEL

## INCOME AND EXPENDITURE

For the year ended June 30, 1918

## INCOME

Income of Funds.		
Fund for Religious Services, . . . . .	\$53.25	
Increase Sumner Wheeler, . . . . .	2,586.28	
Edward Wigglesworth Memorial, . . . . .	7,725.00	\$10,364.53
Use of organ, . . . . .		98.51
		<u>\$10,463.04</u>

## APPLETON CHAPEL (CONTINUED)

## EXPENDITURE

## General.

Preaching and morning services, . . . . .	\$4,080.00	
Administrator, . . . . .	400.00	
Organist and Choir-master, . . . . .	1,500.00	
Choir, . . . . .	1,468.35	
Equipment and supplies, . . . . .	227.01	
Printing, . . . . .	128.39	
Music, . . . . .	56.99	
Board of preachers, . . . . .	46.20	
Work on organ, . . . . .	190.49	
Decorations at Christmas service, . . . . .	40.00	
Sundries, . . . . .	24.19	
Repairs and equipment, land and buildings, . . . .	44.48	
Caretaking, land and buildings, . . . . .	1,234.54	\$9,440.59

## University charge.

Treasurer's Office, care of investments, . . . . .	\$103.01	
Bursar's Office, collections and payments, . . . . .	132.19	
Inspector of Grounds and Buildings, salary and expenses, . . . . .	55.52	
Watchmen, . . . . .	48.40	
Janitor, . . . . .	54.09	
Engineer, . . . . .	18.87	412.08
		<u>\$9,852.67</u>
Balance of restricted income added to Funds and Gifts, . . . . .		610.37
		<u><u>\$10,463.04</u></u>

## SCHEDULE 33

## PHILLIPS BROOKS HOUSE

## INCOME AND EXPENDITURE

For the year ended June 30, 1918

## INCOME

## Income of Funds.

Phillips Brooks House Endowment, . . . . .	\$541.11	
John W. and Belinda L. Randall, . . . . .	376.26	
Ralph H. Shepard, . . . . .	584.22	
Ralph Hamilton Shepard Memorial, . . . . .	302.97	
Louise E. Bettens, . . . . .	130.50	
Phillips Brooks House Association Endowment, . . . . .	3,974.51	\$5,909.57
		<u><u>\$5,909.57</u></u>

# PHILLIPS BROOKS HOUSE (CONTINUED)

## EXPENDITURE

Phillips Brooks House Association, . . . . .	\$3,700.00	
Services and wages, . . . . .	162.60	
Equipment and supplies, . . . . .	3.60	
University Teas, . . . . .	88.77	
Rent of piano, . . . . .	45.00	
Contribution to Harvard Dames, . . . . .	50.00	
Laundry, . . . . .	81.99	
Sundries, . . . . .	8.50	
Repairs and equipment, land and building, . . . . .	92.34	
Caretaking, land and building, . . . . .	2,082.12	\$6,264.92
University charge.		
Treasurer's Office, care of investments, . . . . .	\$18.36	
Bursar's Office, collections and payments, . . . . .	74.57	
Inspector of Grounds and Buildings, salary and expenses, . . . . .	48.89	
Watchmen, . . . . .	34.14	
Engineer, . . . . .	13.27	
Janitor, . . . . .	38.16	221.89
		<u>\$6,486.81</u>
Less amounts transferred.		
Repairs and equipment, land and building, . . . . .	\$92.34	
Caretaking, land and building, . . . . .	2,082.12	
University charge, . . . . .	221.89	2,396.35
		<u>\$4,090.46</u>
Balance constituted as follows :		
Balance of restricted income added to Funds and Gifts, . . . . .	1,819.11	
		<u>\$5,909.57</u>
The above amounts are transferred as follows :		
10 % to University, Schedule 7, . . . . .	\$239.63	
Remainder, divided in proportion to the number of students :		
College, Schedule 8, . . . . .	1,746.86	
Schools of Architecture, Schedule 12, . . . . .	21.67	
Graduate School of Business Administration, Schedule 14, . . . . .	80.59	
Divinity School, Schedule 15, . . . . .	51.12	
Law School, Schedule 16, . . . . .	256.48	
	<u>\$2,396.35</u>	

**GYMNASIUM**

**INCOME AND EXPENDITURE**

For the year ended June 30, 1918

**INCOME**

Fees for the use of			
Lockers, by students, . . . . .	\$531.00		
Gymnasium, by graduates, . . . . .	10.00		\$541.00
Deficit transferred to the following departments in proportion to the number of students.			
College, Schedule 8, . . . . .	\$6,083.68		
Schools of Architecture and Landscape Architecture, Schedule 12, . . . . .	75.44		
Graduate School of Business Administration, Schedule 14, . . . . .	280.64		
Divinity School, Schedule 15, . . . . .	178.04		
Law School, Schedule 16, . . . . .	893.20	7,511.00	
			<u>\$8,052.00</u>

**EXPENDITURE**

Salaries, . . . . .	\$5,500.00		
Services and wages, . . . . .	1,266.70		
Apparatus, . . . . .	105.83		
Equipment and supplies, . . . . .	89.11		
Stationery, postage, telephone and telegraph, . . . . .	56.82		
Printing, . . . . .	39.83		
Sundries, . . . . .	30.18		
Caretaking, . . . . .	980.00	\$8,017.47	
University charge.			
Bursar's Office, collections and payments, . . . . .	\$33.95		
Purchasing Agent, . . . . .	.58	34.53	
			<u>\$8,052.00</u>

**STILLMAN INFIRMARY**

**INCOME AND EXPENDITURE**

For the year ended June 30, 1918

**INCOME**

Income of Funds and Gifts.			
Stillman Infirmary balance, interest, . . . . .	\$3.61		
Robert Charles Billings, for Stillman Infirmary, . . . . .	8,118.63		
Free Bed Fund of the Class of 1868, . . . . .	328.42		
Amount carried forward, . . . . .	\$8,449.66		

## STILLMAN INFIRMARY (CONTINUED)

## INCOME

Amount brought forward, . . . . .	\$3,449.66	
<b>Income of Funds and Gifts (<i>continued</i>).</b>		
Free Bed Fund for the Stillman Infirmary, . . .	38.68	
Herbert Schurz Memorial Free Bed Fund, . .	288.60	
Stillman Infirmary Gift, interest, . . . . .	515.00	
Joseph and Lucius Tuckerman Free Bed, .	515.00	
Henry P. Walcott, . . . . .	165.01	\$4,916.90
<b>Receipts from Students.</b>		
Infirmary annual fees, . . . . .	\$3,886.00	
Receipts from patients, . . . . .	2,594.91	6,480.91
<b>Receipts to replace amounts not charged students who pay the increased tuition fee :</b>		
College. Schedule 8, . . . . .	\$5,086.00	
Schools of Architecture and Landscape Architecture.		
Schedule 12, . . . . .	44.00	
Graduate School of Business Administration.		
Schedule 14, . . . . .	288.00	
Bussey Institution. Schedule 20, . . . . .	16.00	5,384.00
		\$16,781.81
<b>Balance constituted as follows :</b>		
Deficit of general income transferred to University, .	\$9,605.39	
Previous balances credited to General Suspense, .	52.15	
	\$9,657.54	
Less Balance of restricted income added to Funds and Gifts, . . . . .	515.00	9,142.54
		<u>\$25,924.35</u>

## EXPENDITURE

Services and wages, . . . . .	\$8,467.62	
Equipment and supplies, . . . . .	8,003.37	
Stationery, postage, telephone and telegraph, . . . .	189.48	
Printing, . . . . .	16.82	
Sundries, . . . . .	21.85	
Repairs and equipment, land and buildings, . . . . .	462.97	
Caretaking, land and buildings, . . . . .	7,688.66	\$24,850.77
<b>University charge.</b>		
Treasurer's Office, care of investments, . . . . .	\$48.64	
Bursar's Office, collections and payments, . . . .	217.36	
Medical Adviser, salary and expenses, . . . . .	750.00	
Inspector of Grounds and Buildings, salary and expenses, . . . . .	21.30	
Engineer, . . . . .	38.78	
Purchasing Agent, . . . . .	2.50	1,078.58
		<u>\$25,924.35</u>

NON-DEPARTMENTAL FUNDS AND GIFTS FOR  
SPECIAL PURPOSES

INCOME AND EXPENDITURE

For the year ended June 30, 1918

INCOME

Anonymous Fund, . . . . .		\$5,592.19
Anonymous Fund No. 2 :		
Interest, . . . . .	\$1,187.90	
Rents Riverview Estate, . . . . .	338.86	1,476.76
Anonymous Fund No. 3, . . . . .		21,091.48
Anonymous Fund No. 4, . . . . .		11,159.18
Gifts for Arnold Arboretum Building, interest, . . . . .		65.25
Bussey Trust (part), . . . . .		8,334.58
Gift from the Carnegie Foundation, . . . . .		63,076.84
Class of 1834 Fund, . . . . .		114.91
" 1853 " . . . . .		158.31
" 1854 " . . . . .		181.23
" 1856 " . . . . .		595.65
" 1857 " . . . . .		300.00
" 1858 " . . . . .		95.58
" 1864 " . . . . .		165.47
Dr. John C. Cutter Bequest (part), . . . . .		429.45
Henry Isaiah Dorr Bequest, . . . . .		2,800.00
Paul Dudley Fund, . . . . .		251.68
High Voltage Electrical Laboratory, interest, . . . . .		121.31
Germanic Museum Building, interest, . . . . .		1,124.94
Godkin Lectures Fund, . . . . .		960.84
Gray Herbarium, gift for construction, interest, . . . . .		47.06
Gifts for the New Gymnasium Building, interest, . . . . .		445.74
Gift for flagpole on Stadium, interest, . . . . .		20.00
Gurney Fund (part), . . . . .		500.00
Harvard Endowment Fund (part), . . . . .		290.65
Harvard Memorial Society, interest, . . . . .		98.16
Ingersoll Lecture Fund, . . . . .		390.58
Horatio King Fund (part), . . . . .		400.43
Morris Loeb Bequest, . . . . .		22,717.94
James J. Myers Fund, . . . . .		5,288.17
William Belden Noble Lectures Fund.		
Interest, . . . . .	\$1,569.98	
Sales, . . . . .	.94	1,570.92
Henry S. Nourse Fund (part), . . . . .		1,000.00
John Knowles Paine Fund. Interest, . . . . .		1,233.37
Robert Troup Paine, . . . . .		2,858.17
Amount carried forward, . . . . .		\$149,956.73

# NON-DEPARTMENTAL FUNDS AND GIFTS, ETC. (CONTINUED)

## INCOME

Amount brought forward, . . . . .	\$149,956.73	
Professorship of Hygiene (1899) Fund (part), . . . . .	8,904.11	
"    "    "    (1902) " . . . . .	3,187.75	
"    "    "    (1908) " . . . . .	3,313.80	
Lectures on Political Economy Fund, . . . . .	741.96	
Quarterly Journal of Economics.		
Income of John E. Thayer Fund, . . . . .	\$849.34	
Sales, . . . . .	2,275.80	3,125.14
Reserve Officers' Training Corps (gift), . . . . .		1,092.54
Retiring Allowance Fund. Interest, . . . . .		20,879.23
Josiah Royce Memorial, . . . . .		21.21
Gardiner Hubbard Scudder Fund, . . . . .		517.82
George Smith Bequest, . . . . .		760.76
Gifts for Tropical Medicine Hospital, interest, . . . . .		223.08
Ira D. Van Duzee Scholarship Fund (part), . . . . .		263.06
War Activities Fund.		
Gifts for Harvard Bureau in Paris, . . . . .	\$1,255.00	
Interest, . . . . .	14.06	
Other receipts, . . . . .	1,250.00	\$2,519.06
Other gifts, . . . . .	\$66,326.43	
Interest, . . . . .	110.18	66,436.61
War Hero Memorial, interest, . . . . .		58.80
Charles Wilder Fund, . . . . .		2,765.96
Daniel Williams Fund, . . . . .		864.63
Sarah Winslow Fund, . . . . .		247.82
Woodland Hill Fund, use of laboratory, . . . . .		1,000.00
		<u>\$266,884.07</u>

## EXPENDITURE

Anonymous Fund (part) annuity, . . . . .	\$5,600.00	
Anonymous Fund No. 4, . . . . .		10,020.71
Daniel A. Buckley Fund, taxes Deer Isle, Maine, . . . . .	\$1.40	
Expenses real estate, Cambridge, . . . . .	2,642.57	2,643.97
Bussey Trust (part).		
Annuities, . . . . .	\$2,000.00	
Taxes, . . . . .	1,334.58	3,334.58
Gift from the Carnegie Foundation, Retiring Allowances, . . . . .		63,076.84
Class of 1853 Fund, . . . . .		158.31
"    1857 " . . . . .		150.00
"    1864 " . . . . .		160.67
Dr. John C. Cutter Bequest, annuity, . . . . .		429.45
Henry Isaiah Dorr Bequest, annuity, . . . . .		2,800.00
Paul Dudley Fund, Dudleian lectures, . . . . .		170.00
Amount carried forward, . . . . .	\$88,544.53	

**NON-DEPARTMENTAL FUNDS AND GIFTS,  
ETC. (CONTINUED)**

**EXPENDITURE**

Amount brought forward, . . . . .		\$88,544.53
Germanic Museum Building construction, . . . . .		19,310.23
Gurney Fund (part) annuities, . . . . .		500.00
Harvard Endowment Fund, share 1916-17 income paid to		
Harvard Alumni Association, . . . . .		290.65
Harvard Memorial Society Fund, . . . . .		150.00
Professorship of Hygiene, (1899) Fund, annuity, . . . . .		8,000.00
Ingersoll Lecture Fund.		
Lecturer, . . . . .	\$250.00	
Printing, . . . . .	100.00	350.00
Horatio King, annuity, . . . . .		400.42
Morris Loeb Bequest, annuity, . . . . .		21,884.34
James J. Myers Fund, annuities, . . . . .		7,000.00
William Belden Noble Lectures Fund, . . . . .		1,001.36
Henry S. Nourse Fund, annuity, . . . . .		1,000.00
John K. Paine Fund, annuity, . . . . .		1,245.00
Quarterly Journal of Economics, . . . . .		3,263.04
Reserve Officers' Training Corps (gift), . . . . .		624.00
Retiring Allowance Fund, . . . . .		15,556.05
Gardiner Hubbard Scudder Fund, annuity, . . . . .		524.93
George Smith Bequest, annuities, . . . . .		600.00
Ira D. Van Duzee Fund, annuity, . . . . .		196.23
War Activities Fund.		
Reserve Officers' Training Corps, . . . . .	\$453.16	
Harvard Bureau in Paris, . . . . .	7,627.44	
Training Yacht "Adventuress," . . . . .	77.65	
Salle Française, . . . . .	5.50	
Advances on Government Work, . . . . .	404.89	
Miscellaneous, . . . . .	757.23	9,325.87
Charles Wilder Fund, annuities, . . . . .		2,460.00
Daniel Williams Fund. Treasurer for Mashpee Indians, . .		569.83
Sarah Winslow Fund.		
Minister at Tyngsborough, . . . . .	\$120.49	
Teacher at Tyngsborough, . . . . .	120.48	
Commission on income, credited to University, . .	6.20	247.17
Woodland Hill Fund. Interest on advances, . . . . .		446.70
		<u>\$183,440.34</u>
Balance constituted as follows:		
Balance of restricted income carried to		
Funds and Gifts, . . . . .	\$105,439.71	
General Suspense, . . . . .	762.10	
	<u>\$106,201.81</u>	
Less Deficiency of restricted income met by		
Charges against Funds and Gifts, . . . . .	22,757.98	83,443.83
		<u><u>\$366,884.07</u></u>

*Certificate of the Committee of the Overseers of Harvard College, for  
examining the Accounts of the Treasurer*

The committee appointed by the Overseers of Harvard College to examine the accounts of the Treasurer, for the year ending June 30, 1918, have, with the assistance of an expert chosen by them, examined and audited the Cash-book and Journal, covering the period from July 1st, 1917, to June 30th, 1918, inclusive, and have seen that all the bonds, notes, mortgages, certificates of stock, and other evidences of property, which were on hand at the beginning of said year, or have been received by him during said year, are now in his possession, or are fully accounted for by entries made therein. They have also noticed all payments, both of principal and interest, indorsed on any of said bonds or notes, and have seen that the amounts so indorsed have been duly credited to the College.

They have in like manner satisfied themselves that all the entries for moneys expended by the Treasurer, or charged in his books to the College, are well vouched; such of them as are not supported by counter entries, being proved by regular vouchers and receipts.

They have also, by the aid of said expert, satisfied themselves that all the entries for said year are duly transferred to the Ledger, and that the accounts there are rightly cast, and correctly balanced.

(Signed)

W. CAMERON FORBES, *Acting Chairman*,  
THOMAS W. SLOCUM,  
WILLIAM C. ENDICOTT,

Of the  
Committee on behalf of the  
Board of Overseers.

Boston, March, 1919

# INDEX

Two or more entries on a page are indicated by a small figure at the right of the page number: 20<sup>3</sup> indicates three entries on page 20.

Abbreviations are used as follows:—

<i>A.</i> ,	Arnold Arboretum;	<i>L.</i> ,	Law School;
<i>B.</i> ,	Book Funds;	<i>M.</i> ,	Medical School;
<i>Be.</i> ,	Beneficiary and Loan Funds;	<i>O.</i> ,	Observatory;
<i>C.</i> ,	College;	<i>P.</i> ,	Professorship Funds;
<i>D.</i> ,	Divinity School;	<i>Pr.</i> ,	Prize Funds;
<i>F.</i> ,	Fellowship Funds;	<i>S.</i> ,	Scholarship Funds;
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